

# LIONEL ELECTRIC TOY TRAINS

1923  
& "Multivolt" Transformers

TRADE MARK REG.  
U.S. PATENT OFFICE





**JUMPED FOR JOY!"** That's how a happy youngster expressed his feelings to us in a letter after he had run his Lionel Train. Unbounded joy! That's what every boy experiences when operating a Lionel Outfit, and there are three million such happy boys; even in the farthest corners of the world.

Just think! You can have a great railroad system in miniature under your control. You can be President, Engineer or Conductor. Dad will have lots of fun too. You can make him your assistant and bring him back to his boyhood days, although he did not have such wonderful toys to play with. Think of the days and days of fun you will have with a Lionel Train, starting and stopping it with a touch of your finger, running it at high speed, slowing it down to a crawling pace, or reversing it by just moving the controller handle.

Imagine the delight you will experience by turning the lever of the track switch, just the same as a railroad switchman does, and instantly you can run your train on to a siding to clear the track for the oncoming express. See the glaring headlight of the Lionel Limited as it comes dashing along the cleared track with its illuminated Pullman cars. Now it stops at the brilliantly lighted station. The conductor shouts, "ALL ABOARD!"—a touch of your finger on the current lever and the express is again on its way.

A grade crossing is seen in the distance. As the train approaches, the electric bell on the warning signal rings and continues to ring until the train has passed. The automatic electric crossing gates go down and remain in that position until the track is clear once more; then, up they go and traffic may cross the track.

What fun! What excitement! Your train swings around the curve and now dashes through the tunnel and out to the brightly shining signal lights along the track. Over the bridge now and down the straightaway!

Can you imagine anything more thrilling? And it is all possible with a Lionel Train and Lionel Railroad Equipment. Day after day all through the year, indoors and out, the fun will continue. New thrills will be yours by adding Lionel Accessories from time to time.

All the most up-to-date equipment, exact models of the kind that all the big railroads use, is included in the marvelous Lionel Line.

Then again, what science is more fascinating than electricity and its principles? Think boys, how useful the knowledge will be to you when you grow to manhood, the electrical and mechanical knowledge that you will gain while playing with your Lionel Outfit; the problems in transportation that you will be able to solve and the many other advantages you will have when you are ready to fight life's battle.

**Only Lionel motors will stand up day after day and run with perfect ease, pulling many Pullman or freight cars around the curves and over inclines. No other trains compare with Lionel in construction, appearance, finish or durability. No other trains will provide the joy and excitement obtainable from a Lionel layout.**

Boys! It's great to be able to get so much fun and knowledge for so little cost.

**If Dad bought an automobile he would look at the motor first, to make sure that this vital part was all**

## Writes one happy boy

that it should be, to be certain that it would stand the severe usage to which it would be put. In just the same way the motors of all Lionel Locomotives are built to last and withstand even a greater strain in proportion to their size than Dad's automobile.

On the following pages we describe as fully as space will permit, the perfection of every part that enters into a Lionel Train. Read the descriptive matter, boys, and you will surely realize that Lionel Trains are built with the same care and precision as the large railroad trains which traverse the continent.

We have given much time and thought to the compilation of this beautiful book, so that you can select your Lionel Outfit, "Multivolt" Transformer and Accessories in as simple a way as possible. And please remember that Lionel products are lower priced, notwithstanding their very high quality, than any cheap grade of electric toy that may be offered to you as a substitute.

**There can be no substitute for Lionel products. Go to your dealer and ask him to demonstrate a Lionel Train for you. See how easily and smoothly it runs. Examine the motor, the cars and the track. See how wonderfully well each part is made. See the infinite detail that makes every part of the equipment look as massive and realistic as the big real electric trains.**

Then, insist on Lionel. Don't be satisfied with anything else. If your dealer cannot supply you please write to us, telling us of your requirements and we will see that you get what you want right from our big factory.

### THE LIONEL CORPORATION

48-52 East 21st Street

New York, N. Y.

"STANDARD OF THE WORLD"  
SINCE NINETEEN HUNDRED



We reproduce above the beautiful and substantial box in which all Lionel outfits are packed. It is made of solid corrugated board which acts as a cushion around every part of the outfit so that the beautiful finish of the cars cannot be scratched or marred. Little nests in the box protect the locomotive, track and each car. You receive it in the same beautiful condition as it leaves the factory.

Say "LIONEL" to Your Dealer  
Don't be satisfied with any other make

### OPERATE YOUR LIONEL TRAIN ON ANY CURRENT

Lionel Trains can be operated on the house lighting circuit with a "Multivolt" Transformer for alternating current or a Lionel Direct Current Reducer for direct current; or from dry cells or storage batteries.



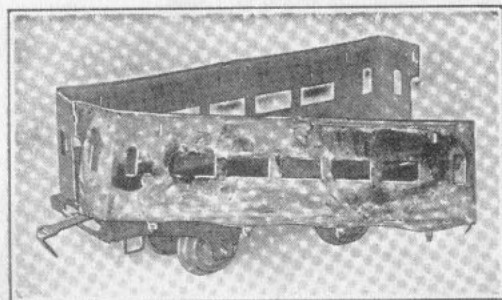


Fig. 1—How some cars of other makes are made—in three or more pieces, rickety, put together very insecurely with little fingers that soon bend or break (see text matter).



**LEADERSHIP** in an industry is attained by specialization and continual effort in one direction for a number of years, and in making the product better in every way than anything similar.

For nearly twenty-five years we have devoted our entire resources and unsurpassed facilities to the manufacture of electric trains, "Multivolt" transformers and miniature railroad accessories.

Our leadership has been justly attained. Millions of Lionel Trains are in use, many of them for ten years or more.

It would take a good sized volume to print the many thousands of commendatory letters we have received

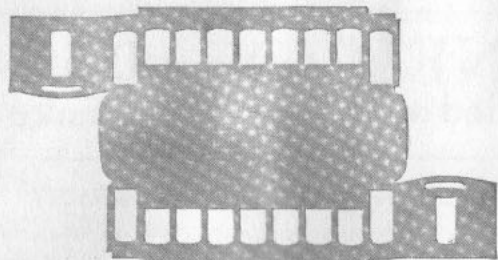


Fig. 2—Car body cut with one steel die.

since the establishment of this Corporation. Fathers have turned over to their children the outfits they used in their boyhood days, which is evidence of the long-lasting qualities of Lionel products.

An electric train is only as good as its motor. It must be electrically and mechanically perfect. If the working parts will not stand up under the severe strain they are put to, the rest of the outfit is worthless. Lionel products are sold under a broader guarantee than any similar toy in the world. If they show defects in material or construction they are replaced without charge and without question.

It is with pride that we give on these pages some of the details of manufacture, not only to show the superior and up-to-date machinery we use, but also to make clear that only the highest grade material and the most skilled work people produce the numerous items that go to make up the Lionel Line. On the next pages we show the working parts of the various types of locomotives we make.

We will now take you on a brief trip through the Lionel factory to show the most interesting processes of production of precise and important parts.

Figure No. 1 shows the ordinary lithographed car held together with easily breakable metal fingers which the public was compelled to accept before we introduced our substantial method of construction.

The superiority of Lionel cars will at once become apparent when the reader looks at Figure No. 2, which shows a "blank" of a Lionel car body made from ONE PIECE of metal.

In Figure No. 3 the next process is shown, the forming of the car body from the "blank". It will be seen that the ends of the car are open, and in Figure No. 4 the completed car body is shown with the ends soldered firmly in place, eliminating the use of fingers and making the car practically indestructible.

No lithographed metal enters into the construction of any part of Lionel trains. Our exclusive enameling and baking process, used on our entire line, is infinitely more durable and lasting than the cheaper method employed by any other manufacturer.

Figure No. 5 shows the department where the enamel is sprayed on by the most modern methods. This insures an even, highly finished surface inside and out.

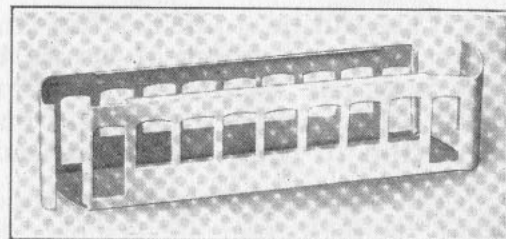


Fig. 3—Car body formed from blank in Fig. 2. Floor, sides, ends all one piece—ready to be soldered in two places—at the ends.

Then the cars and locomotive bodies are arranged on trays (See Figure No. 6) and placed in large steel ovens. These ovens are heated to a temperature of 300 degrees and the finish is baked on them for several hours. This gives a permanent lasting finish, the same as on the most expensive automobiles. You can always keep your Lionel equipment bright and new-looking by simply rubbing the surface with a cloth.

Now we will show you why Lionel Track is better. We use heavier metal and pay particular attention to the insulation to eliminate every possibility of short-circuit. Specially designed machines constructed in our own factory, turn out millions of sections a year. Our method is scientific and is patented. One reason for the strength of Lionel Track is seen in Figure No. 8. You will note that the rails are flanged outward at the base

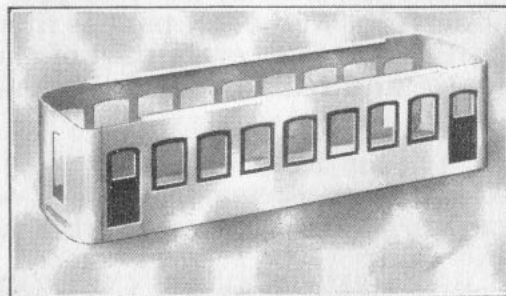


Fig. 4—Car body same as Fig. 3 with corners soldered and window frames in position.



# LIONEL Leadership

MILLIONS OF HAPPY USERS  
THE WORLD OVER



Fig. 5—Spraying Enamels—Here the beautifully colored enamels are sprayed on the steel bodies to give them their permanent polished colors.

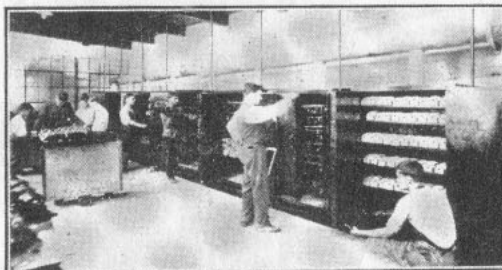


Fig. 6—Baking Ovens—Here the enamels are baked on at high temperature after spraying. The ovens are heated by electricity.

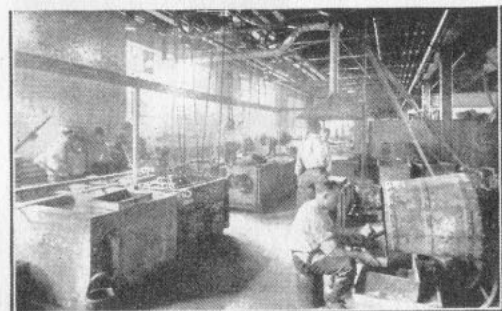


Fig. 9—Nickel Plating Dept.—Electricity flows through the nickel solution in the vats and puts a plating of nickel on many pieces, like wheels, headlights and various other parts.

instead of being turned in, the same as inferior makes of track shown in the illustration. This outward flange makes Lionel Track so rigid that it will support the weight of a full-grown man. In Figure No. 7 we show you how our track will support a suspended weight of 110 pounds against 20 pounds for the other makes of track. This was an actual test made before experts.

LIONEL TRACK



OTHER TRACK

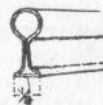


Fig. 8—Why Rails Are So Rigid—The base of Lionel track is flanged to a  $\frac{5}{16}$ -inch base with turned-over edges, instead of having a  $\frac{1}{8}$ -inch base as in other tracks.

Now we come to the motor—the very heart of an electric train. The length of time that an Electric Train Outfit can be used depends upon the efficiency and construction of the motor.

In Figure 10 we show you a corner of our Armature and Field Winding Departments. The battery of automatic winding machines that we use insures the correct windings which give so much power to Lionel Motors and makes them last so long. On the following pages you will see the complete descriptions of the various types of motors we manufacture.

Wherever it is possible to enhance the appearance of Lionel products we do so by nickel plating many of the parts. Figure No. 9 shows the vast department of our factory devoted to this process. Nickel plating enables you to keep the wheels, headlights, hand rails, steps and many other parts of your equipment, bright and shining for the life of the outfit.

It would take considerable space to illustrate and describe the many other wonderful departments in our big factory, which covers four acres of floor space. Hundreds of skilled men and women are employed, who work with a heartfelt interest, which is reflected by the high quality of Lionel products and which has made them

“STANDARD OF THE WORLD” SINCE 1900

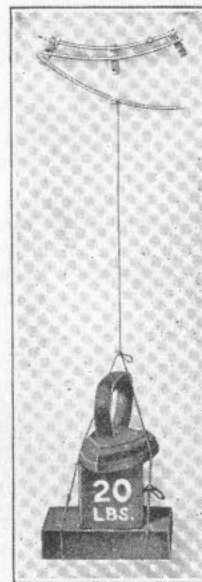


Fig. 7—Other track cannot support a weight of 20 lbs. Lionel track supports 100 pounds or more.

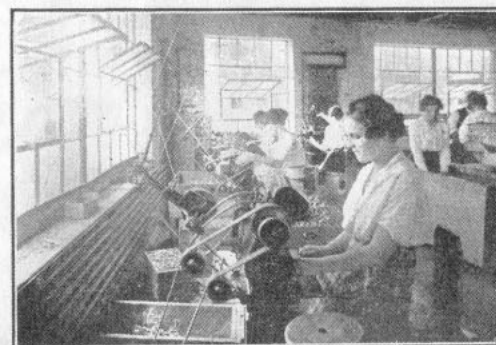
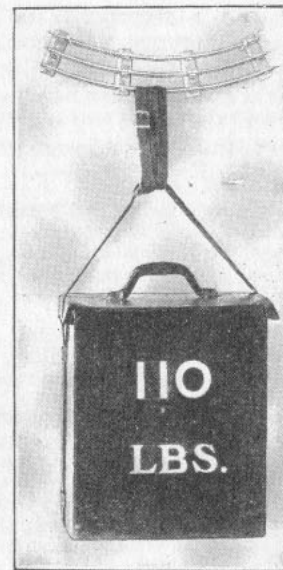


Fig. 10—Motor Winding—This is just one corner of the motor winding department. Some wonderfully designed machines are used here.



THE same great care in construction is used in all Lionel motors. The "O" gauge motors described on this page are constructed on new and scientific principles, unlike any toy motor on the market. The efficiency of Lionel motors has been amply demonstrated since 1900 when we first introduced them. They will haul a greater number of cars in proportion to their sizes, than any other motor now made. You will readily see the reasons when you read the following:

**Driving Gears ("A" and "B")**—Are made of heavy steel blanks accurately cut. They mesh without friction. These are radically different from gears with punched teeth generally used on toys.

**Frame and Cowcatcher ("C")**—Are made of heavy steel punchings, not cast iron. They will not break when roughly treated.

**Third Rail Shoe Support ("D")**—Is made of heavy fibre that supports the third rail contact rollers. The peculiar construction of the roller supports protects them from injury, for the brackets can be forced against the fibre without disturbing the arc of the spring that gives them the correct tension against the third rail. When released they will come right back to the proper position.

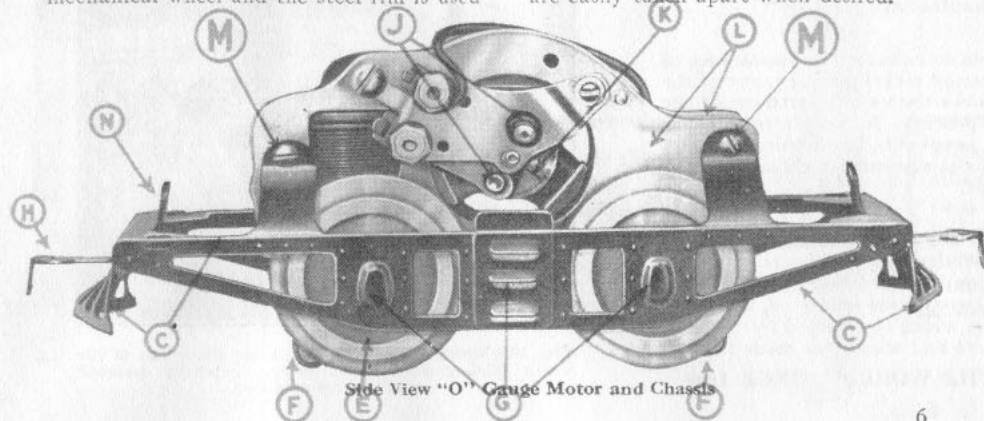
**Wheels ("E")**—These are made of die castings with a steel jacket forced over the rim. The die casting represents a perfect mechanical wheel and the steel rim is used

to insure longer wear, as it is tougher than the material of which the wheel is made.

**Collecting Shoes ("F")**—These revolving shoes which collect the current from the third rail are made of solid brass turnings and revolve on steel shafts which pass through a phosphor-bronze support, insuring perfect contact with the third rail at all times, so that the outfits will run at a uniform speed and not work with a start and jump as is usually the case with locomotives that do not collect a continuous supply of current from the third rail.

**Journals ("G")**—These journals and steps are embossed on the sides of the frame at the ends of the shafts and add materially to the appearance of the structure.

**Couplers ("H")**—These are made of heavy steel, nicked and polished. They are scientifically constructed so that cars do not become detached when in motion, but are easily taken apart when desired.



## "O" Gauge Motor—Description of Working Parts

**Brushes and Brush Holders ("J")**—The brush holders to which the brushes are attached can easily be removed so that the brush may be changed when necessary in a few seconds. The brushes are made of phosphor-bronze gauze and will run for hundreds of hours if commutator is kept clean.

**Commutator ("K")**—The commutator is constructed of three bronze sections with insulation between them. It is perfectly turned when fastened on the shaft so that it is absolutely parallel with the brushes and the polished surface reduces friction to a minimum.

**Side Plates ("L")**—These are made of heavy steel and support all working parts. The alignment of the holes is absolutely perfect so that gears and motor work without friction. All holes are drilled and reamed to proper diameter. The accuracy of these plates compares with the framework of a very fine watch or clock.

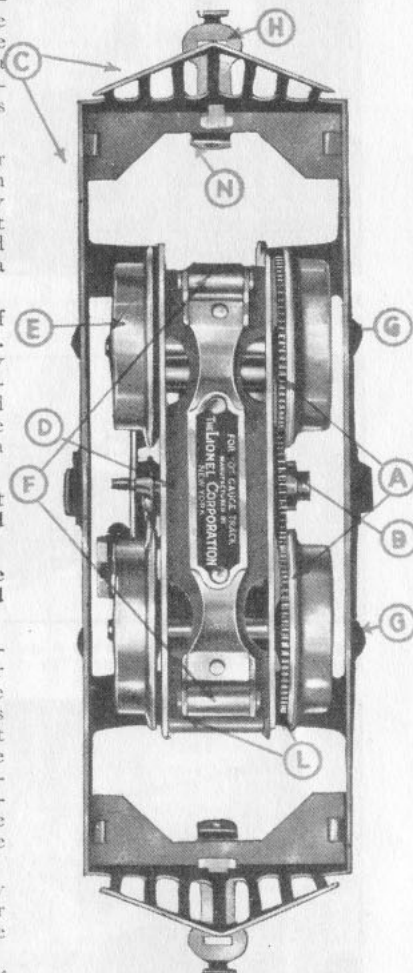
**Motor with Frame Attachment ("M")**—Only four screws are required to support the frame to the motor.

We are the pioneers in this simple method of construction. We introduced it in 1913.

**Support of Body to Frame ("N")**—The simple construction of the entire motor is apparent by the method of holding the body to the frame. The letter ("N") shows a piece of the steel frame thrown up at right angles containing threaded screw hole. The hole in the body corresponds with the opening in the frame and both pieces are held together with two machine screws. These are easily removed so that working parts may be instantly released.

**Transmission Cables**—We use a heavy gauge copper wire with extra heavy rubber insulation so that short-circuits against the metal parts are impossible.

**Field**—This field is made of a number of pieces of specially prepared transformer steel. These sheets are known as laminations and produce a very much stronger field than if a single piece were used.



Bottom View "O" Gauge Motor and Chassis



## "Standard" Gauge "Single Motors"—Description of Working Parts

STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED

**"STANDARD" GAUGE MOTORS!** What a world of meaning these words have when applied to Lionel Motors made for  $2\frac{1}{4}$ " gauge track. When you read the following and see how precisely and accurately these "Standard" Gauge Motors are constructed their great popularity is not to be wondered at. Many refinements incorporated in Lionel "Standard" Gauge Motors cannot be found in any other make. The bearings are reinforced; axles are made of drill rod instead of soft wire, and nuts and bolts are used instead of rivets, so that they can be replaced if necessary.

**Field (1)**—Made of best quality electrical steel, laminated throughout, and contains the winding properly insulated (2).

**Brush Holders (3 and 4)**—Made of brass, with detachable tops, so that brushes may be easily reached. Contains brass compression spring (5), which feeds brush up to the commutator. This construction prevents sparking of the brushes and prolongs the life of the commutator.

**Brushes, Self-Lubricating (6)**—Require no lubricating. A little cleaning of the commutator once in a while is all that is necessary. One brush is made of phosphor bronze—one of amorphous carbon. Each is made exactly true in diameter and will slip easily into the tube brush holders. They will outlast dozens of the commoner kinds.

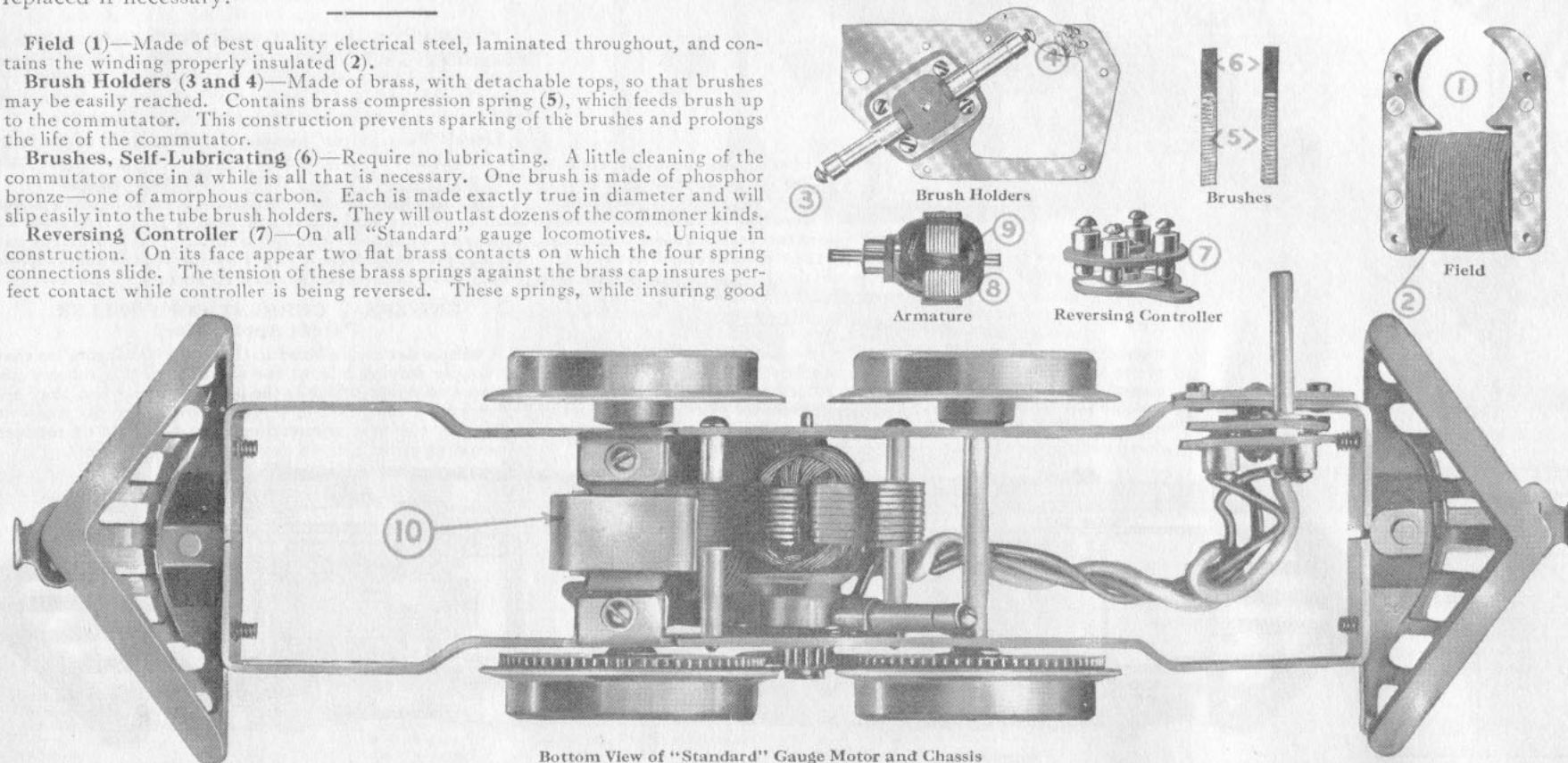
**Reversing Controller (7)**—On all "Standard" gauge locomotives. Unique in construction. On its face appear two flat brass contacts on which the four spring connections slide. The tension of these brass springs against the brass cap insures perfect contact while controller is being reversed. These springs, while insuring good

electrical contact, work with so little friction that controller may be easily reversed with a touch of the finger.

**Armature (8)**—Made of electrical steel punchings mounted on drill rod shaft, and has fibre heads. Automatically drum-wound with proper size and amount of triple covered silk magnet wire (9), then dipped in shellac and baked, so that none of the coils become loose.

**The Third Rail Shoe (10)**—Which collects the current from the center insulated rail, is a steel punching with spring arrangement regulating the pressure on the rail. It is case hardened so that the friction against the third rail does not wear it through.

*See description of Lionel "Twin-Motor" Locomotives on page 8*

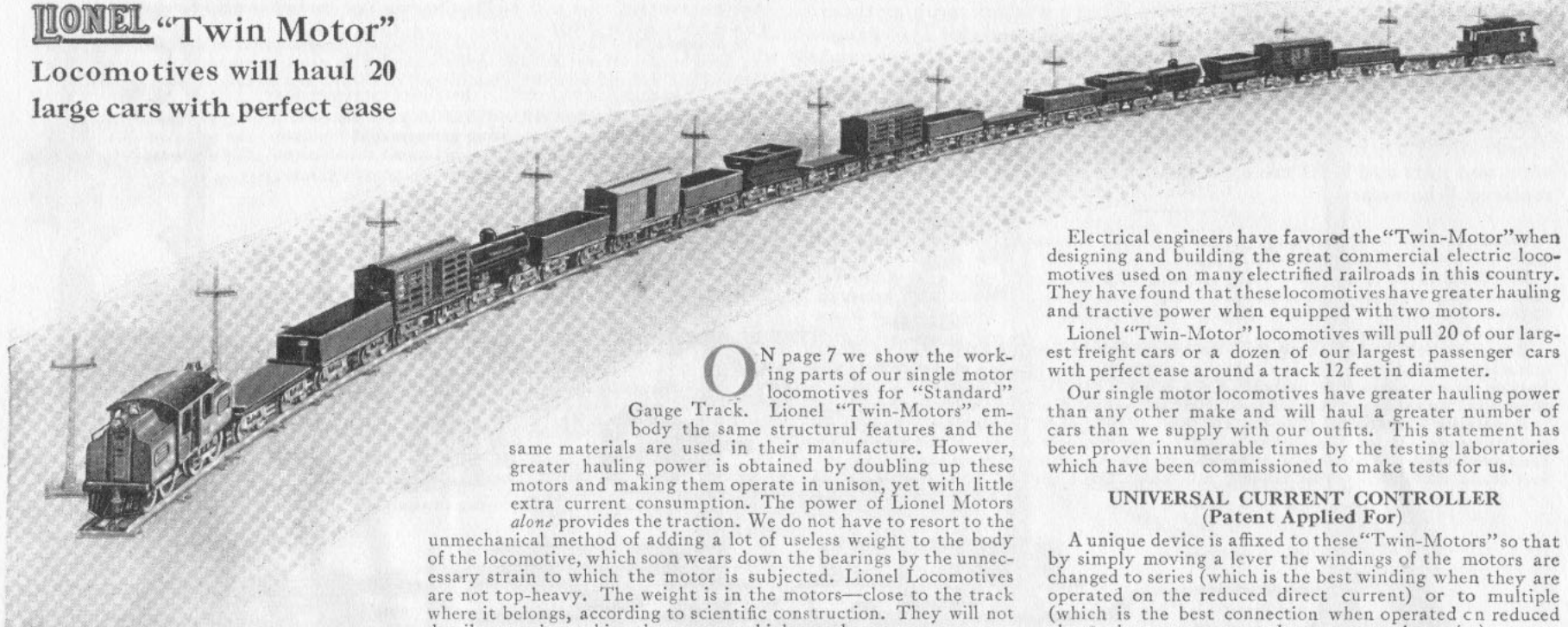


Bottom View of "Standard" Gauge Motor and Chassis



### LIONEL "Twin Motor"

Locomotives will haul 20 large cars with perfect ease



ON page 7 we show the working parts of our single motor locomotives for "Standard" Gauge Track. Lionel "Twin-Motors" embody the same structural features and the same materials are used in their manufacture. However, greater hauling power is obtained by doubling up these motors and making them operate in unison, yet with little extra current consumption. The power of Lionel Motors alone provides the traction. We do not have to resort to the unmechanical method of adding a lot of useless weight to the body of the locomotive, which soon wears down the bearings by the unnecessary strain to which the motor is subjected. Lionel Locomotives are not top-heavy. The weight is in the motors—close to the track where it belongs, according to scientific construction. They will not derail even when taking the curves at high speed.

Electrical engineers have favored the "Twin-Motor" when designing and building the great commercial electric locomotives used on many electrified railroads in this country. They have found that these locomotives have greater hauling and tractive power when equipped with two motors.

Lionel "Twin-Motor" locomotives will pull 20 of our largest freight cars or a dozen of our largest passenger cars with perfect ease around a track 12 feet in diameter.

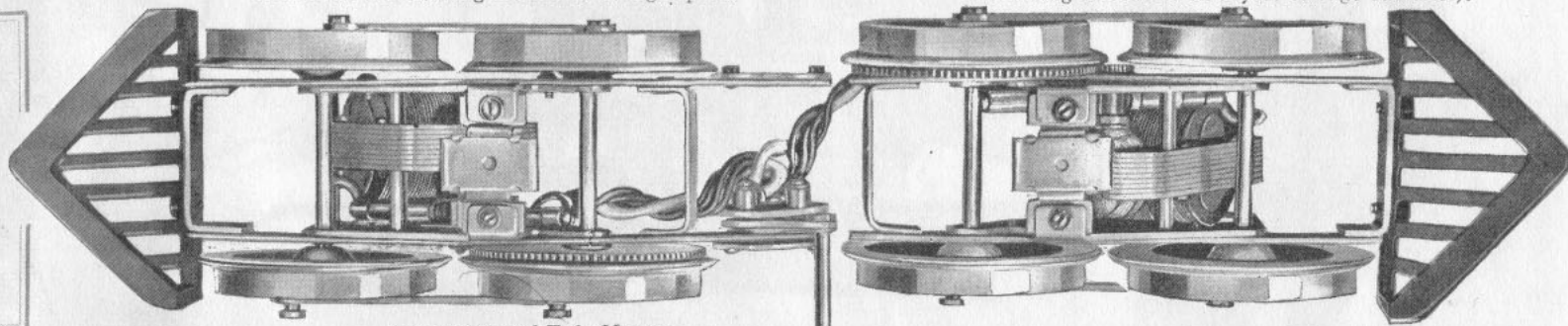
Our single motor locomotives have greater hauling power than any other make and will haul a greater number of cars than we supply with our outfits. This statement has been proven innumerable times by the testing laboratories which have been commissioned to make tests for us.

#### UNIVERSAL CURRENT CONTROLLER (Patent Applied For)

A unique device is affixed to these "Twin-Motors" so that by simply moving a lever the windings of the motors are changed to series (which is the best winding when they are operated on the reduced direct current) or to multiple (which is the best connection when operated on reduced alternating current or on dry or storage batteries).

The outfits listed below, illustrated and described on the following pages, contain Lionel "Twin-Motor" Locomotives.

- Outfit No. 42
- Outfit No. 54
- Outfit No. 44
- Outfit No. 420
- Outfit No. 421
- Outfit No. 422
- Outfit No. 423
- Outfit No. 424



Bottom View of Twin-Motors

## The New "Super-Motor" ("Standard" Gauge)—Description of Working Parts

MILLIONS OF HAPPY USERS  
THE WORLD OVER

THE "SUPER-MOTOR" is so vastly superior in efficiency and design to any motor ever before offered to the public that, notwithstanding the enviable reputation we have enjoyed for more than a generation for leadership in miniature motor construction, the "Super-Motor" is supremely the finest piece of equipment our factories have ever produced.

**Minimum Current Consumption**—The Lionel "Super-Motor" is not only more powerful than any motor of its size, but it consumes less than half the current of any motor developing the same power.

**Re-enforced Bearings**—The side plates which contain the motor are made of very heavy steel and are accurately aligned so that friction is almost entirely eliminated. All bearings are re-enforced with heavy bushings which add to the life of the motor.

**Field and Armature**—These parts are made of the best grade of laminated steel and are of the most improved design.

**Brushes**—The brushes are made of self-lubricating bronze and graphite, which insure long life to the motor.

**Commutator**—The commutator is made of heavy bronze, and segments are perfectly insulated.

**Removable Brush-holder**—This is one of the most unique features of the Lionel "Super-Motor". By simply unscrewing one screw the entire brush-holder can be removed from the motor. Change of brushes requires but an instant and the assembled part is replaced without the use of any tools. While this feature is very desirable, we are pleased to state that the user will not find it necessary to perform this operation until after the motor has been in use for a long time.

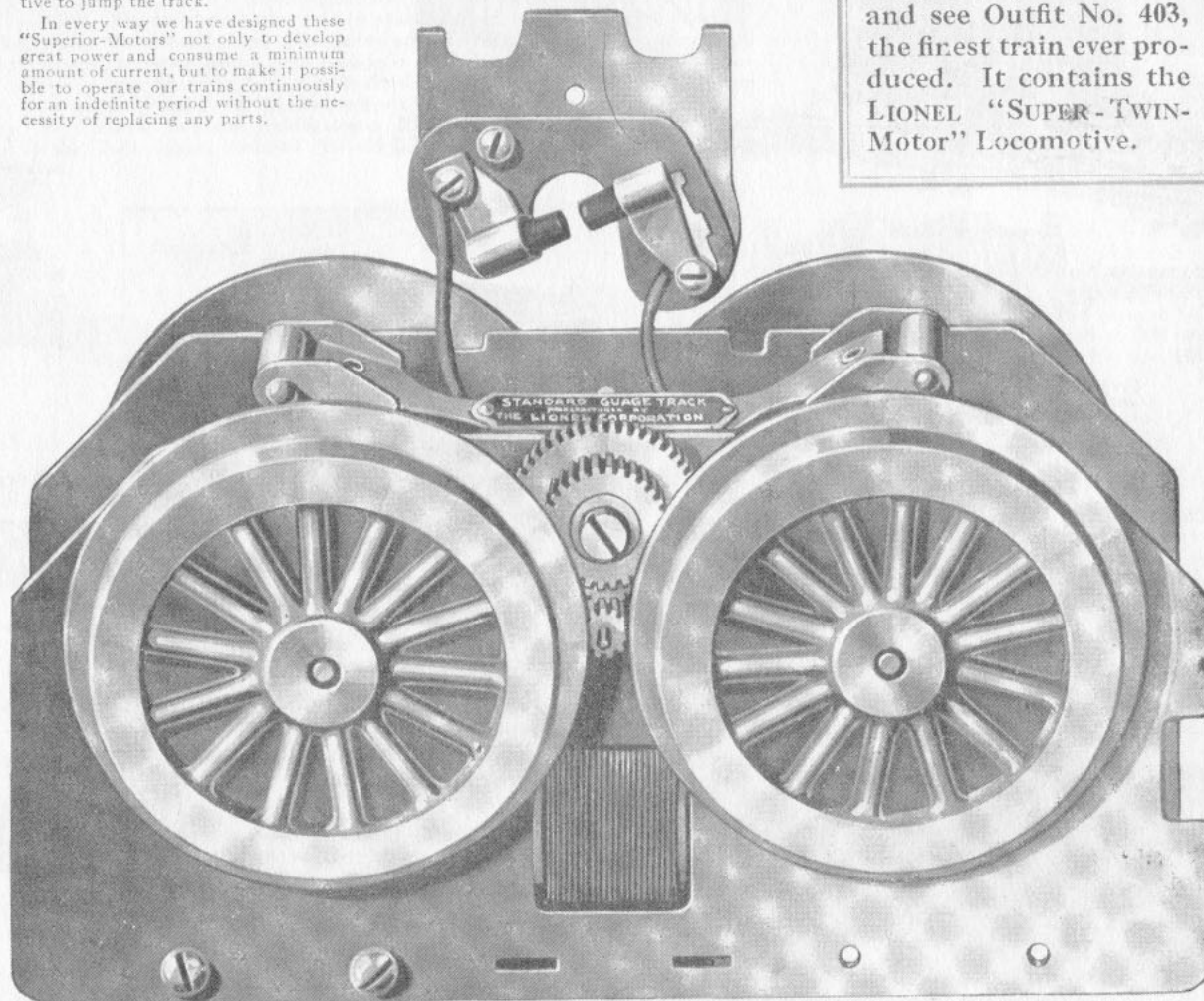
**Gears**—The gears used in this motor are substantially made of steel and brass. They mesh accurately and are absolutely noiseless.

**Driving Wheels**—Particular attention is directed to the driving wheels, which are massive in construction and are 2½ inches in diameter. They are accurately lathe-turned. Their weight adds great tractive power to the motors. All driving wheels are directly geared to the motor, eliminating the use of connecting rods between the wheels, which insures better alignment with less friction.

**Tractive Power**—The tractive power of these motors is remarkable. They will haul from 12 to 20 of our largest size freight or Pullman cars with the greatest ease. The weight of the wheels and motor are close to the track, insuring low center of gravity, with the result that the locomotive is not top-heavy and slippage of the wheels is therefore unknown. This construction is infinitely superior to the method of loading down the superstructure with useless weight so as

to obtain tractive power. This unnecessary weight rapidly wears down all working parts and causes the locomotive to jump the track.

In every way we have designed these "Superior-Motors" not only to develop great power and consume a minimum amount of current, but to make it possible to operate our trains continuously for an indefinite period without the necessity of replacing any parts.



Turn to pages 24 and 25 and see Outfit No. 403, the finest train ever produced. It contains the LIONEL "SUPER-TWIN-Motor" Locomotive.

Lionel "Super-Motor" Showing Removable Brush Plate





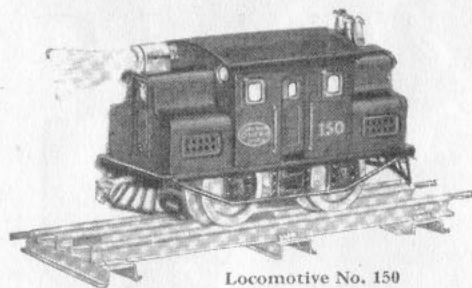
Locomotive No. 158

**Locomotive No. 158**—6 inches long, 3 inches high and 2 $\frac{1}{2}$  inches wide. Has four wheels and nickeled dummy headlight. For use with Pullman Car No. 600 or Freight Cars Nos. 800, 801, 802, 803, 804 and 901.

Code Word "GOTHAM"  
 Price \*\$4.25, †\$5.00

**Locomotive No. 150**—6 inches long, 3 inches high, and 2 $\frac{1}{4}$  inches wide. Has four wheels and electric headlight. For use with Pullman Cars Nos. 600, 603 and 604, or Freight Cars Nos. 800, 801, 802, 803, 804 and 901.

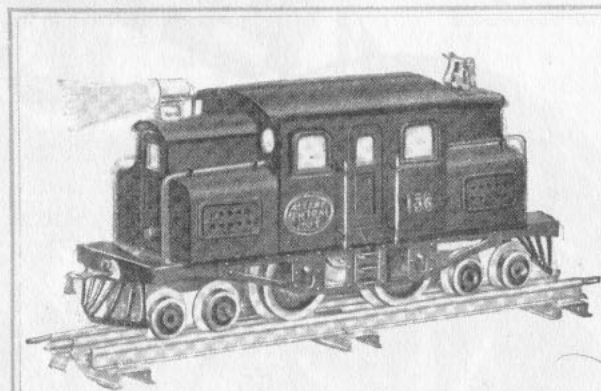
Code Word "GARLAND"  
 Price \*\$5.00, †\$6.00



Locomotive No. 150

OUR first thought is to give you Lionel quality even in our low priced "O" gauge locomotives. We believe they are the greatest values ever offered.

Look at the detail! Bodies are made of sheet steel and finished in a variety of durable enamels. The hand rails, bells, headlights and couplers are highly polished nickeled steel—gold lettering and decorations—heavy die-cast wheels with nickeled steel overtread, producing a steady even motion without friction. The frames, journals and cowcatchers are just like those on the big powerful electric engines.



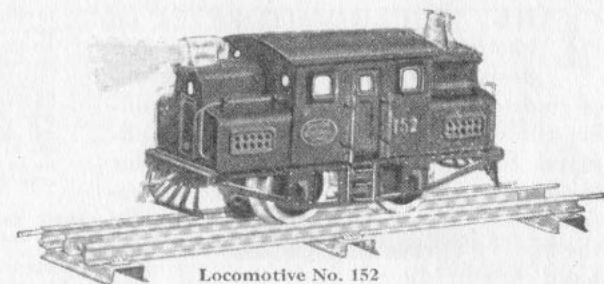
Locomotive No. 156

**Locomotive No. 156**—With electric headlight. Has twelve wheels and reversing controller. 10 inches long, 4 inches high, and 3 inches wide. For use with Pullman Car No. 610, Observation Car No. 612, or Freight Cars Nos. 820 and 822.

Code Word "GRAMAN"  
 Price \*\$14.25, †\$17.00

**Locomotive No. 156X**—Similar in every respect to No. 156 mentioned above, but without front and rear pilot trucks.

Code Word "GINGER"  
 Price \*\$12.95, †\$15.50



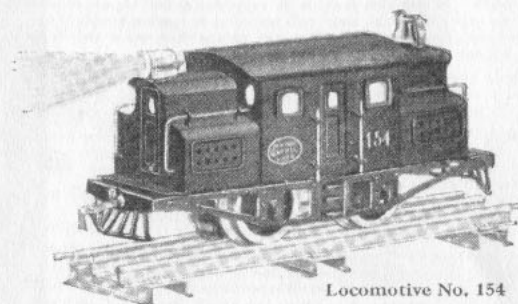
Locomotive No. 152

**Locomotive No. 152**—Has four wheels and electric headlight; 7 inches long, 3 $\frac{1}{2}$  inches high, and 2 $\frac{1}{2}$  inches wide. For use with Pullman Cars Nos. 601 and 603, Mail Car No. 602, Observation Car No. 604, and Freight Cars Nos. 820 and 822.

Code Word "GRAMERCY"  
 Price \*\$7.25, †\$8.50

**Locomotive No. 154**—Has four wheels, electric headlight and reversing controller, 8 inches long, 3 $\frac{1}{2}$  inches high, 2 $\frac{1}{2}$  inches wide, as this locomotive will back up and go ahead just as you want it to. Use same cars as for No. 152.

Code Word "GARTER"  
 Price \*\$11.00, †\$13.00



Locomotive No. 154

See pages 29 and 31 for the Correct Cars to use with these Locomotives

\*Price, East of Missouri River. †Price, West of Missouri River.

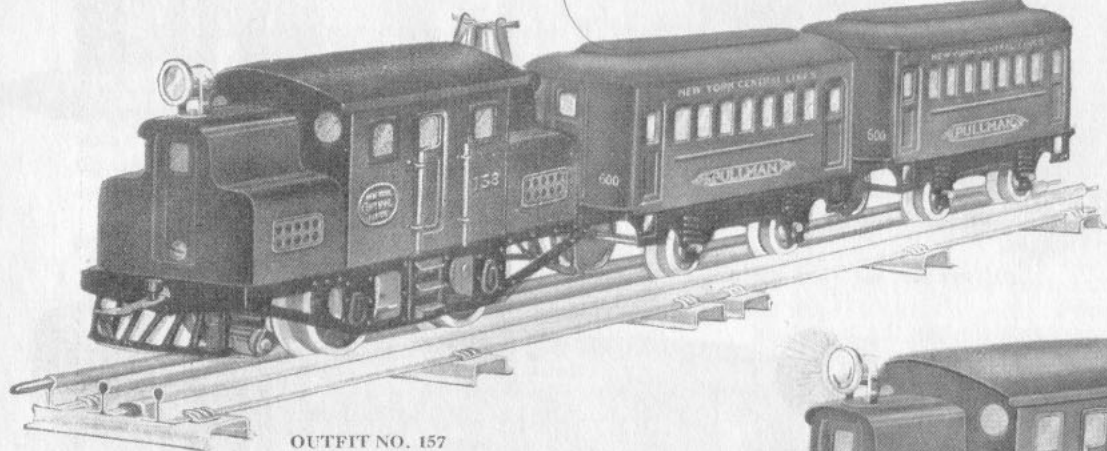
## Train Outfits for "O" Gauge Track—1 $\frac{3}{8}$ Inches Wide

STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED

**BOYS!** Even if you can not buy one of the larger Lionel outfits, you can be sure of getting the very best value for your money if you buy one of the low-priced Lionel Trains listed on this page.

**Outfit No. 157**—Comprises one No. 158 Locomotive (with dummy headlight), two No. 600 Pullman Cars, eight sections of OC track (one with electrical connections), making a circle 30 inches in diameter. Train is 20 inches long. This is a good, low-priced passenger train.

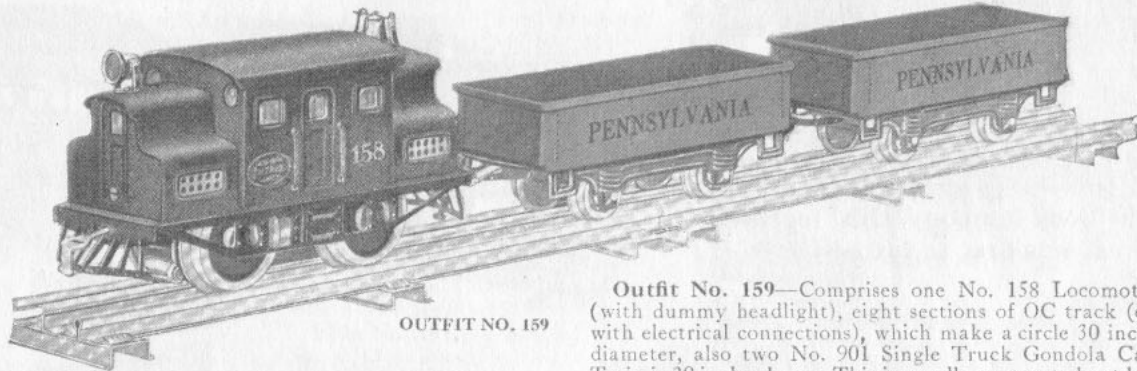
Code Word "MODERN" Price \*\$6.75, †\$8.00



OUTFIT NO. 157

**Outfit No. 160**—Comprises one No. 150 Locomotive with electric headlight, two No. 600 Pullman Cars, eight sections OC curved track (one with electrical connections) and two sections OS straight track, making oval 32 x 30 inches, and one No. 88 Controlling Rheostat. Length of complete train 20 inches. The extra track provided with this outfit, and the addition of the controlling rheostat makes this outfit preferable to the two listed above.

Code Word "GRATER" Price \*\$8.50, †\$10.00

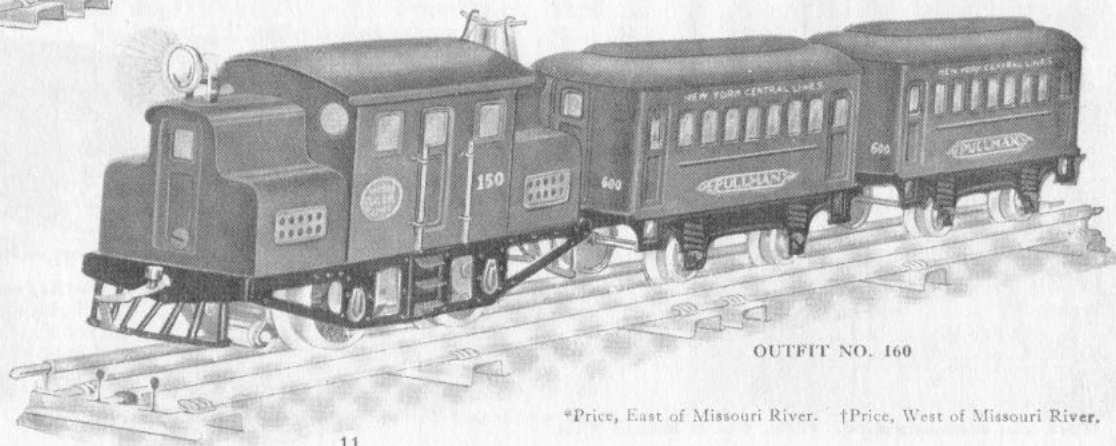


OUTFIT NO. 159

**Outfit No. 159**—Comprises one No. 158 Locomotive (with dummy headlight), eight sections of OC track (one with electrical connections), which make a circle 30 inches diameter, also two No. 901 Single Truck Gondola Cars. Train is 20 inches long. This is a well-constructed yet low-priced outfit.

Code Word "GOODLY" Price \*\$5.75, †\$7.00

Lionel "Multivolt" Transformers will run these trains better and more economically than by any other method. See pp. 32 and 33.

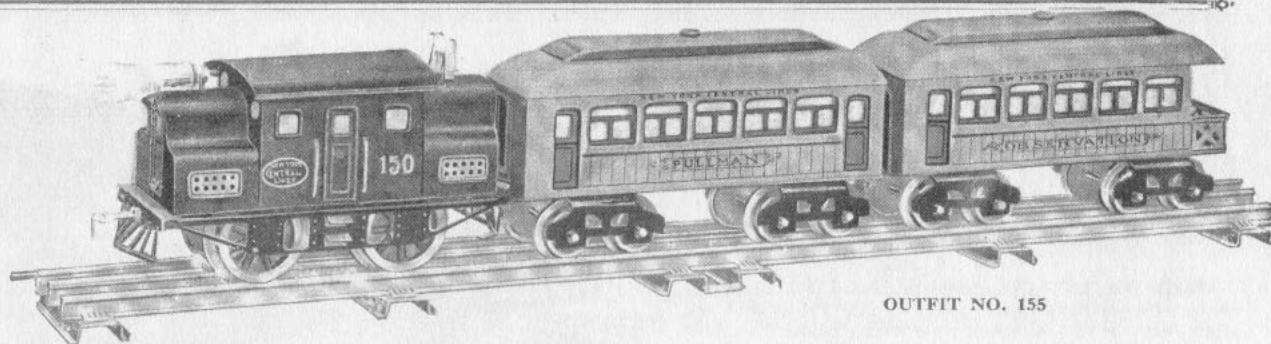


OUTFIT NO. 160

\*Price, East of Missouri River. †Price, West of Missouri River.



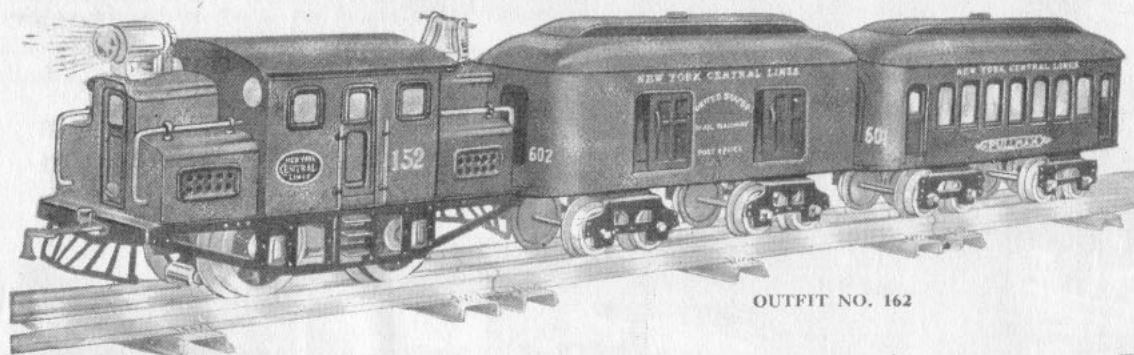
**W**HY is it possible to run Lionel trains around curves at such high speed? Because all the trucks are constructed on the Lionel patented flexible principle. All the trains shown throughout this book embody this feature. Lionel was first to introduce it.



OUTFIT NO. 155

**Outfit No. 155**—Comprises one No. 150 Locomotive with electric headlight, one No. 603 Pullman Car, one No. 604 Observation Car, eight sections of OC curved track (one with electrical connections), four sections of OS straight track, making an oval 49 x 30 inches. Also includes No. 88 Controlling Rheostat. Length of complete train 22 inches. Good value in this outfit. It means hours of genuine enjoyment for the boys who get it.

Code Word "PERFECT" Price \*\$10.50, †\$12.50



OUTFIT NO. 162

**Outfit No. 162**—Comprises one No. 152 Locomotive with electric headlight, one No. 601 Pullman Car, one No. 602 Mail Car, one No. 88 Controlling Rheostat, eight sections OC curved track (one with electrical connections), and four sections OS straight track, making an oval 49 x 30 inches. Length of complete train 23 inches.

Code Word "SAMPSON"  
Price \*\$12.95, †\$15.50



OUTFIT NO. 164

**Outfit No. 164**—Comprises one No. 154 Reversing Locomotive with electric headlight, one No. 602 Mail Car, two No. 601 Pullman Cars, eight sections OC curved track (one with electrical connections), six sections OS straight track, making an oval 59 x 30 inches. Included is one No. 88 Controlling Rheostat. Complete length of train 31½ inches.

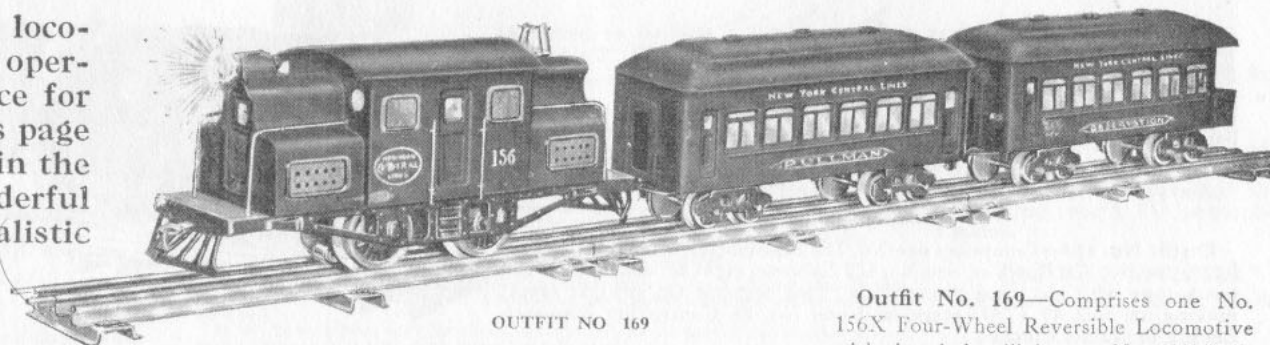
Code Word "SAUL"

Price \*\$16.75, †\$19.90

## Train Outfit for "O" Gauge Track— $1\frac{3}{8}$ Inches Wide

MILLIONS OF HAPPY USERS  
THE WORLD OVER

HERE you see the largest locomotives and cars made to operate on "O" gauge track. Piece for piece, the outfits shown on this page represent the greatest values in the world. Read all about the wonderful detail incorporated in these realistic trains.



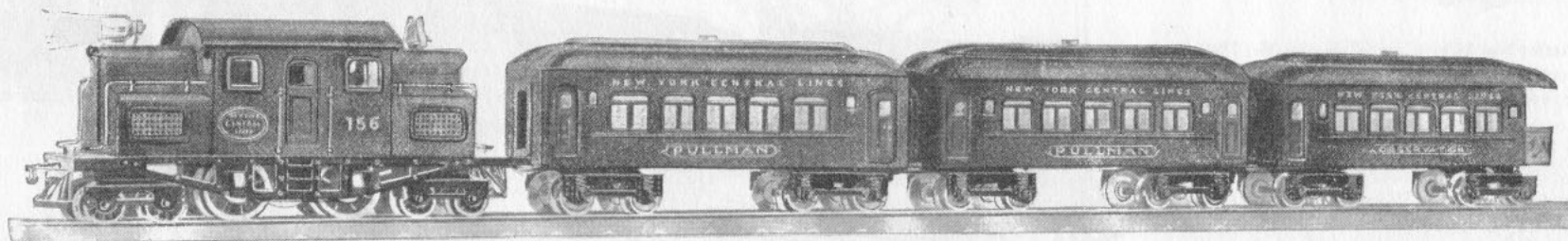
OUTFIT NO. 169

Boys! When you have selected your Lionel Train, begin to plan your complete railroad. See the many wonderful accessories you can add—Switches, Crossings, Electric Lamp Posts, Block Signals, Automatic Crossing Gates, Stations, Tunnels and a host of other realistic devices.

**Outfit No. 169**—Comprises one No. 156X Four-Wheel Reversible Locomotive with electric headlight, one No. 610 Pullman Car, one No. 612 Observation Car, eight sections OC curved track (one with electrical connections), four sections OS straight track, making an oval 49 x 30 inches. One No. 88 Controlling Rheostat is included. Length of complete train is 29 inches. This is a new outfit and it embodies the largest equipment we make for "O" gauge track.

Code Word "VALUE"

Price \*\$18.00, †\$21.50



OUTFIT NO. 166

**Outfit No. 166 De Luxe**—The locomotive has 12 wheels, electric headlight, and is reversible. Attention is directed to the detail embodied in the cars included with this outfit. The die work, ornamental windows, interior seats, removable roof and lettering of the cars are especially attractive. Comprises one No. 156 Locomotive, two No.

610 Pullman Cars, one No. 612 Observation Car, eight sections OC curved track (one with electrical connections), six sections OS straight track, making an oval 30 inches wide and 59 inches long. Included is one No. 88 Controlling Rheostat. Length of train 37 $\frac{1}{2}$  inches.

Code Word "COOKS"

Price \*\$22.25, †\$26.50



**F**REIGHT trains are just as important to a railroad as passenger trains. No toy freight trains are as real looking as Lionel. The heralds of prominent railroads are reproduced on all the freight cars.

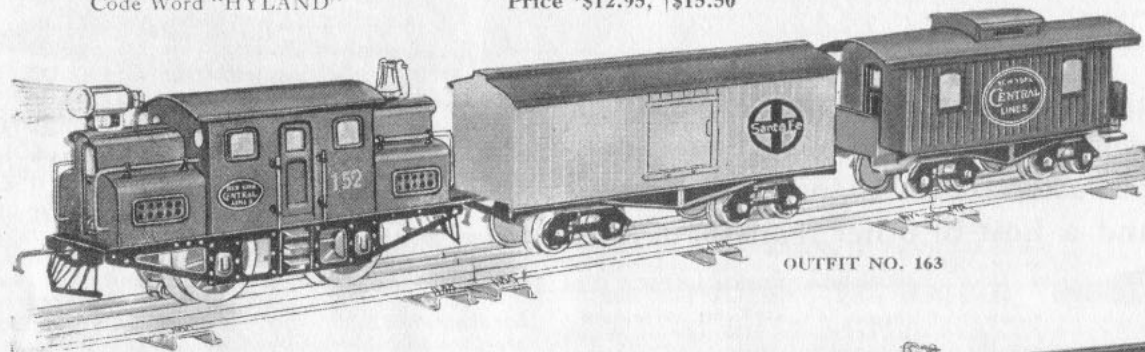
You will find all the suitable passenger cars for use with these trains, listed elsewhere in the catalogue. Great fun, boys, to make your train into a passenger or freighter by buying additional cars.

And you can be sure that the powerful Lionel locomotives will pull 'em all!

**Outfit No. 163**—Comprises one No. 152 Locomotive with electric headlight, one No. 820 Box Car, one No. 822 Caboose, eight sections OC curved track (one with electrical connections), four sections OS straight track, making an oval 49 x 30 inches, and one No. 88 Controlling Rheostat. Length of train 23 inches.

Code Word "HYLAND"

Price \*\$12.95, †\$15.50

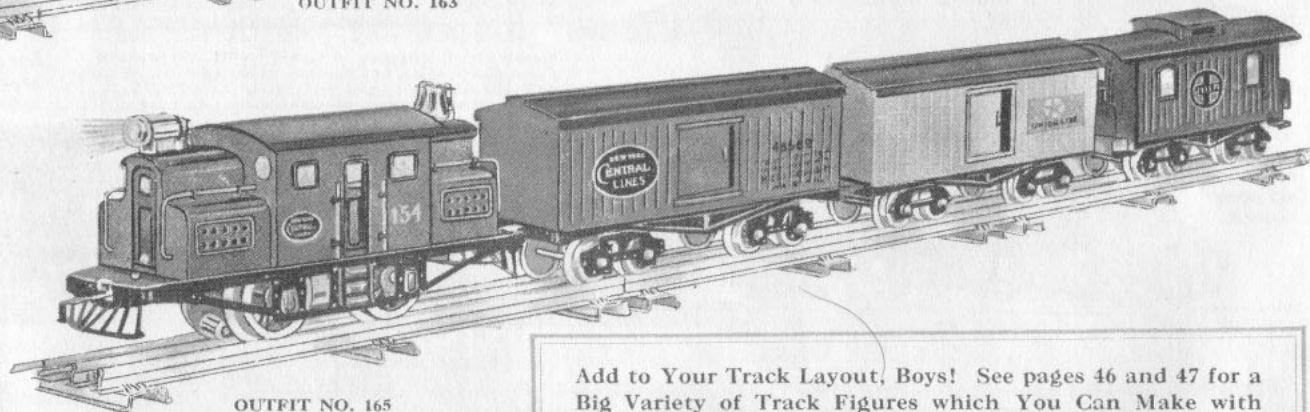


OUTFIT NO. 163

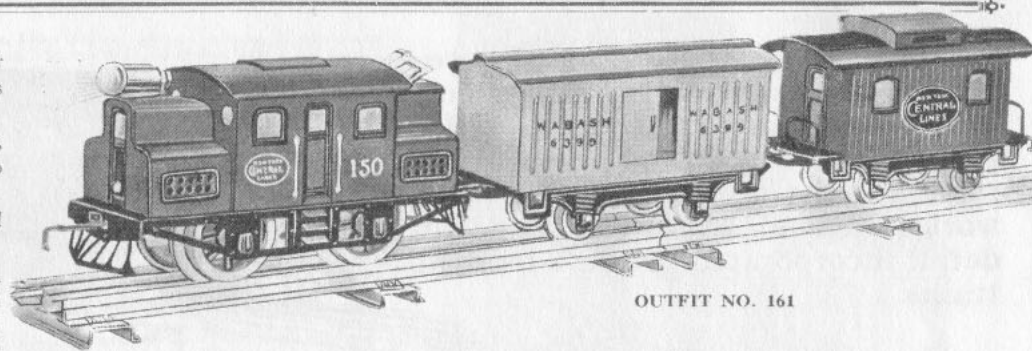
**Outfit No. 165**—Comprises one No. 154 Reversing Locomotive with electric headlight, two No. 820 Box Cars, one No. 822 Caboose, eight sections OC curved track (one with electrical connections), six sections OS straight track, making an oval 30 inches wide and 59 inches long. Has one No. 88 Controlling Rheostat. Length of train 31 $\frac{1}{2}$  inches.

Code Word "ISABEL"

Price \*\$16.75, †\$19.90



OUTFIT NO. 165



OUTFIT NO. 161

**Outfit No. 161**—Comprises one No. 150 Locomotive with electric headlight, one No. 800 Box Car, one No. 801 Caboose, one No. 88 Controlling Rheostat, eight sections OC curved track (one with electrical connections), and two sections OS straight track, making an oval 30 x 39 inches. The freight cars in this outfit are most realistic. Length of train 20 inches.

Code Word "HYACINTH"

Price \*\$8.50, †\$10.00

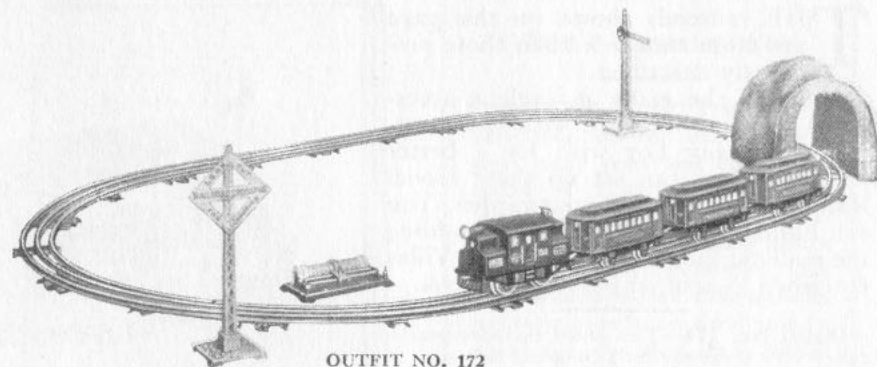
Add to Your Track Layout, Boys! See pages 46 and 47 for a Big Variety of Track Figures which You Can Make with Straight and Curved Sections, Switches and Crossings.

## Complete Railroad Outfits for "O" Gauge Track—1 $\frac{3}{8}$ Inches Wide

STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED

**M**ANY boys prefer to buy a complete railroad right from the start, so we have planned the outfits shown on this and the next page. In addition to the train and track you get accessories, such as semaphores, warning signals, bridges and telegraph posts—all packed in one large attractive box.

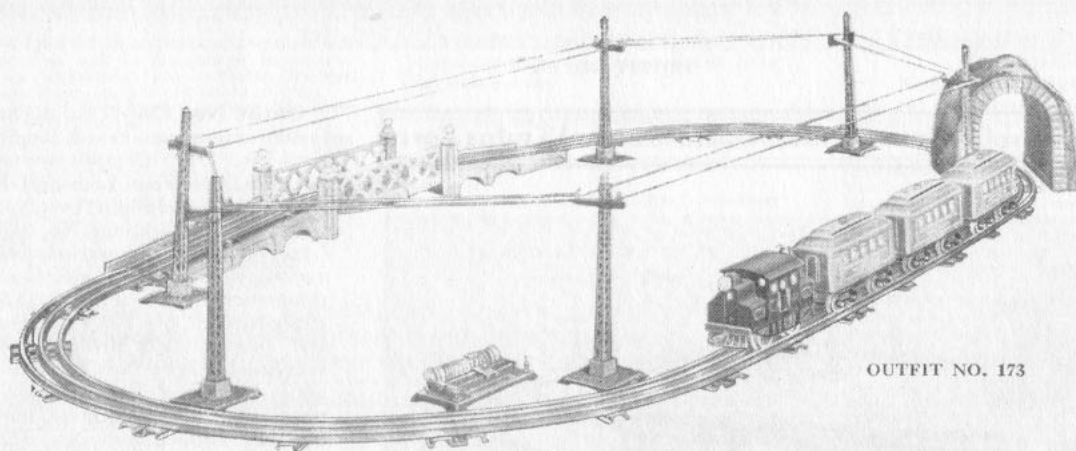
It is remarkable how little these complete Lionel railroads cost, considering the high quality of the equipment supplied.



OUTFIT NO. 172

**Outfit No. 172**—This is a new outfit that we have just introduced to fill the demand for a complete railroad at very moderate cost. It comprises one No. 150 Locomotive with electric headlight, three No. 600 Pullman Cars, eight sections OC curved track (one with electrical connections), four sections OS straight track, forming an oval 30 x 49 inches. Included also are one No. 88 Controlling Rheostat, one No. 68 Warning Sign, one No. 62 Semaphore and one No. 118 Metal Tunnel.

Code Word "QUINCY" Price \*\$12.50, †\$15.00



OUTFIT NO. 173

**Outfit No. 173**—Here is another moderate priced complete electric railroad. It comprises one No. 150 Locomotive with electric headlight, two No. 603 Pullman Cars, one No. 604 Observation Car, eight sections OC curved track (one with electrical connections), six sections OS straight track, forming an oval 30 x 59 inches. Included with this outfit are one No. 88 Controlling Rheostat, six No. 60 Telegraph Posts, one No. 106 Bridge and one No. 118 Metal Tunnel.

Code Word "PACIFIC"

Price \*\$20.00, †\$24.00

\*Price, East of Missouri River. †Price, West of Missouri River.

All Aboard!! Over the bridge and around the curve goes your Lionel train. Loads and loads of fun for a long time after you own a Lionel outfit. Your Lionel train just runs and runs and keeps running because of its sturdy construction. All Lionel outfits, no matter what the price, are fully guaranteed.

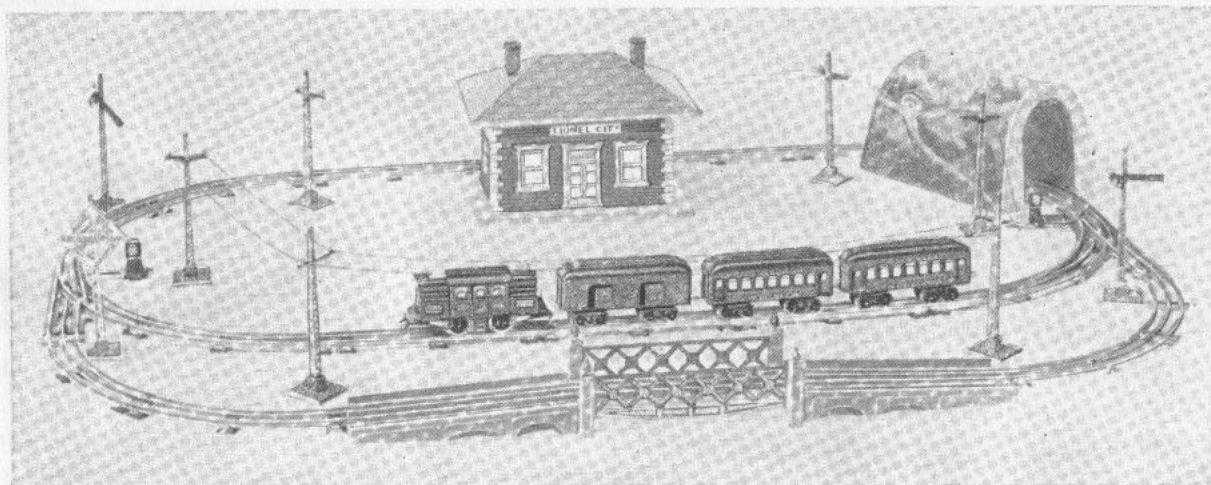


THE railroads shown on this page are more complete than those previously described.

Look at the many marvelous accessories that are included with these outfits. Can any boy wish for a better present? You can set up these Lionel Railroads indoors or in your garden. You can build up a model village by adding the realistic Lionel Bungalows and Villas described in another part of this book.

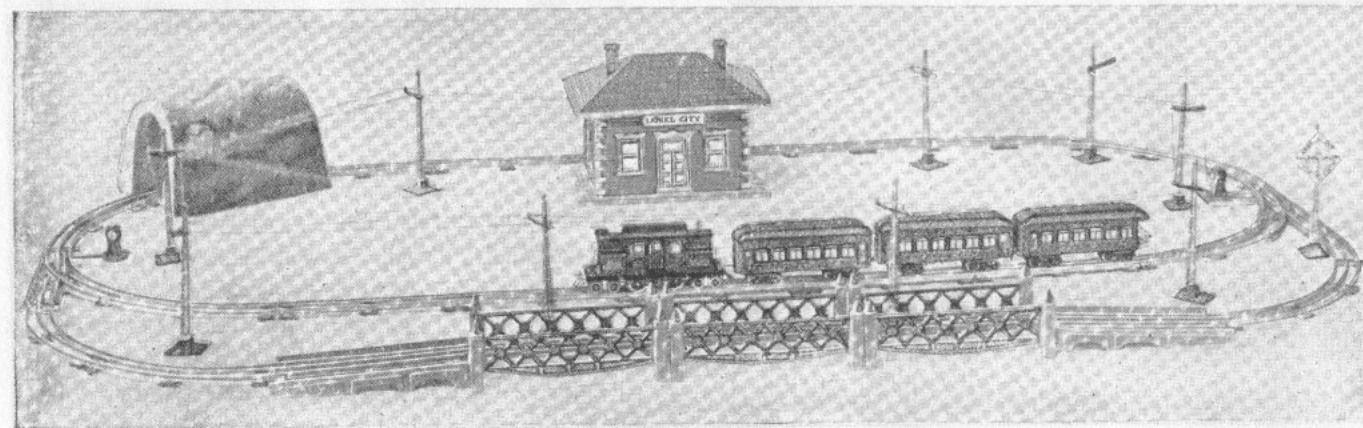
**Outfit No. 174**—This outfit includes practically every accessory for a complete railroad. It comprises one No. 154 Reversing Locomotive with electric headlight, one No. 602 Mail Car, two No. 601 Pullman Cars, ten sections OC curved track (one with electrical connections), six sections OS straight track, one No. 88 Rheostat, two No. 022 Switches, one No. 106 Bridge, one No. 121 Station, six No. 60 Telegraph Posts, two No. 62 Semaphores, one No. 68 Railroad Crossing Sign, one No. 119 Tunnel. Size of track layout, 45 x 60 inches.

Code Word "DELAWARE"  
Price \*\$37.50, †\$45.00



OUTFIT NO. 174

Lionel "Multivolt" Transformers Operate Lionel Trains Best



OUTFIT NO. 176

**Outfit No. 176**—This outfit includes equipment that is larger than No. 174. Comprises one No. 156 Reversing Locomotive with electric headlight, two No. 610 Pullman Cars, one No. 612 Observation Car, ten sections OC curved track (one with electrical connections), ten sections OS straight track, one No. 88 Rheostat, one No. 109 Bridge (five sections), eight No. 60 Telegraph Posts, one No. 62 Semaphore, one No. 121 Station, one No. 119 Tunnel, two No. 022 Switches. Size of track layout, 45 x 82 inches.

Code Word "BURLINGTON"  
Price \*\$47.50, †\$57.00

\*Price, East of Missouri River.  
†Price, West of Missouri River.

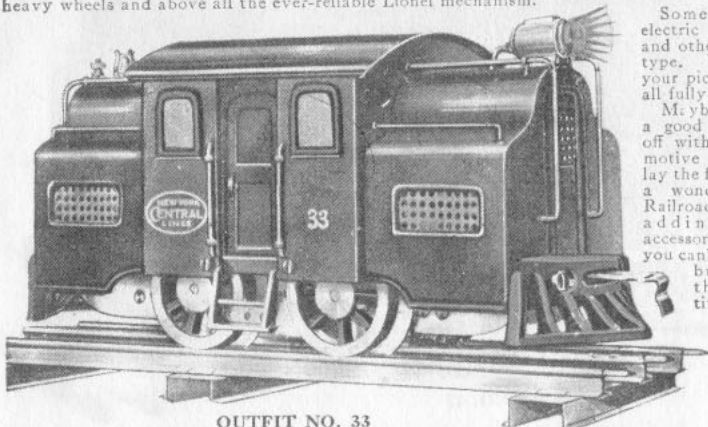
# Locomotive Outfits for "Standard" Gauge Track—2¼ Inches Wide

MILLIONS OF HAPPY USERS  
THE WORLD OVER

HERE they are—the big, powerful "Standard" Gauge Locomotives, every one a tremendous puller. Don't hesitate about buying several Pullman or freight cars, for these massive haulers will speed away with them like a flash. See how faithfully the detail is reproduced—the big steel bodies with their beautiful enamel finish—the handsome nickeled trimmings, heavy wheels and above all the ever-reliable Lionel mechanism.

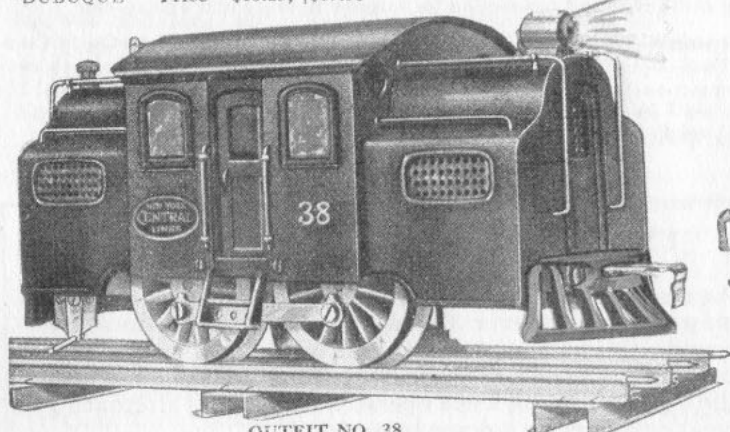
Some boys prefer electric type engines and others the steam type. You can take your pick. They are all fully guaranteed.

Maybe you think it a good idea to start off with just a locomotive and track to lay the foundation for a wonderful Lionel Railroad; afterwards adding cars and accessories. If so, you can't go wrong by buying one of these locomotive outfits.



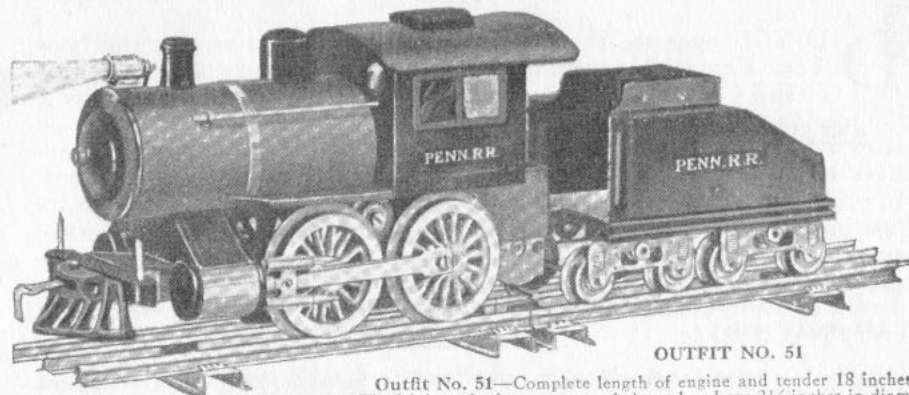
OUTFIT NO. 33

**Outfit No. 33**—The locomotive is 11 in. long, 3 in. wide and 4½ in. above the rails. Has 4 geared driving wheels, 1½ in. diameter, electric headlight, reversing controller and connection for interior lighting of Pullman cars. Outfit includes 8 sections of C curved track (one with electrical connections) making a circle 3½ feet diameter. Code Word "DUBUQUE" Price \*\$16.25, †\$19.50



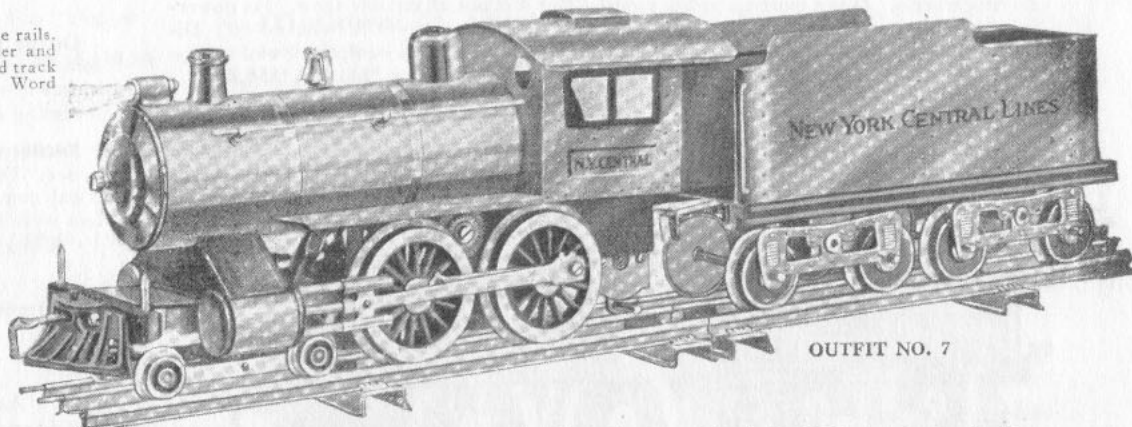
OUTFIT NO. 38

**Outfit No. 38**—The locomotive is 12 in. long, 3½ in. wide and 5 in. above the rails. Has 4 driving wheels 2½ in. in diameter, connected with heavy steel driving rods, electric headlight, reversing controller and connection for interior lighting of Pullman cars. Outfit includes 8 sections of C curved track (one with electrical connections) making a circle 3½ feet in diameter. Code Word "AKRON" Price \*\$18.50, †\$22.00



OUTFIT NO. 51

**Outfit No. 51**—Complete length of engine and tender 18 inches. The driving wheels are counter-balanced and are 2½ inches in diameter. Has electric headlight, reversing controller and connection in cab for interior lighting of passenger cars. Outfit includes 8 sections of C curved track (one with electrical connections), and 4 sections of S straight track. The track provided with this outfit makes an oval 3½ feet wide by 5 feet 9 inches long. Code Word "OHIO" Price \*\$27.50, †\$33.00



OUTFIT NO. 7

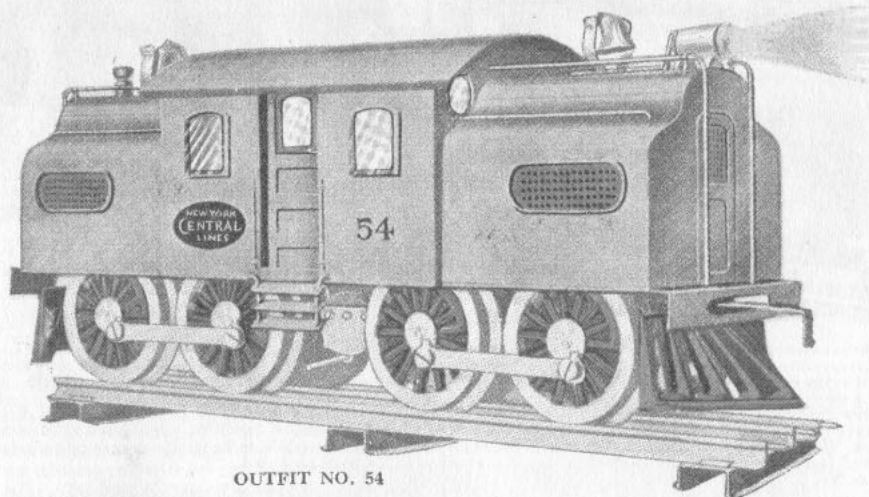
**Outfit No. 6**—Complete length of engine and tender 22 inches. The driving wheels are counter-balanced and are 2½ inches in diameter. The four wheel pilot truck is made on the swivel principle and is perfect in its action. Has electric headlight, reversing controller and connection in cab for interior lighting of passenger cars. Outfit includes 8 sections of C curved track (one with electrical connections), and 4 sections of S straight track. The track provided with this outfit makes an oval 3½ feet wide by 5 feet 9 inches long. No. 6 Outfit is not illustrated but it is the same as No. 51 in finish and like No. 7 Outfit in construction and size. Code Word "VICTORIA" Price \*\$37.50, †\$45.00

**Outfit No. 7** (Illustrated above)—Dimensions of this locomotive and tender are exactly the same as No. 6 and the same track equipment is provided with it. The wonderful nickel and brass finish of this outfit makes it admirable for display purposes. It is acknowledged to be the finest steamtype model ever produced. Code Word "GEORGIA" Price \*\$58.50, †\$70.00

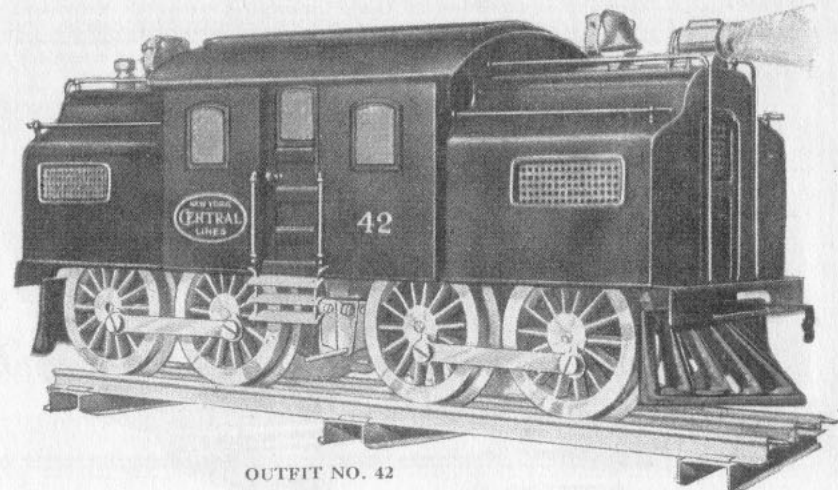


**D**ID YOU ever see the powerful electric locomotives on the New York Central Lines pull the "Twentieth Century Limited" into Grand Central Station? The blazing headlight, the bell clanging, the hissing air brakes and the body vibrating as though with satisfaction after a successful run. Well—the Lionel reproductions of these locomotives will make you believe that the big real train is in your own home. In proportion to their size the Lionel Locomotives shown on this page are just as powerful. "Twin-Motor" Locomotives No. 42 and No. 54 have an established reputation. They are much more powerful and yet consume far less current than any other make. After you have read the details of construction on page 8 you will readily see how "wear-resisting" every part is made.

**Outfit No. 54, the Locomotive de Luxe**—Nothing richer or more elegant is produced by any manufacturer of electric toy trains. Search the markets of the world. To own one of these locomotives is the dream of every boy! No pictures, no words, no imagination can describe or think of the beauty of this locomotive. You *must* see it to get the shine of its splendid brass and nickel finish on body, hand-rails, ventilators, headlight and driving wheels. It is a most elaborate model. But it is not all outside show. Its powerful "twin-motors" do their wonderful work the instant the current is switched on. Dimensions and construction are same as No. 42. Has same track equipment and can be used with same cars. Code Word "PENN" **Price \*\$41.75, †\$50.00**



OUTFIT NO. 54



OUTFIT NO. 42

**Outfit No. 42**—Every detail of the large, powerful electric engines is faithfully reproduced in this "Twin-Motor" locomotive. The driving wheels are 2½ inches in diameter. The trucks are swivel and flexible. Has electric headlight, reversing controller, and connection for interior lighting of Pullman cars.

**Dimensions**—15½ inches long, 4 inches wide, and 6 inches high. Outfit comprises "Twin-Motor" locomotive, eight sections C curved track (one with electrical connections), and four sections of S straight track, making an oval 3½ feet wide by 5 feet 9 inches long.

Code Word "AUGUSTA"

**\*Price \$29.25 †\$35.00**

### UNIVERSAL CURRENT CONTROLLER (Patent Applied For)

A unique device is affixed to these locomotives so that by simply moving a lever the windings of the motors are changed to series (which is the best winding when they are operated on the reduced direct current) or to multiple (which is the best connection when operated on reduced alternating current or on dry or storage batteries).

See pages 29 and 31 for the Correct Cars to use with these Locomotives

\*Price, East of Missouri River. †Price, West of Missouri River.

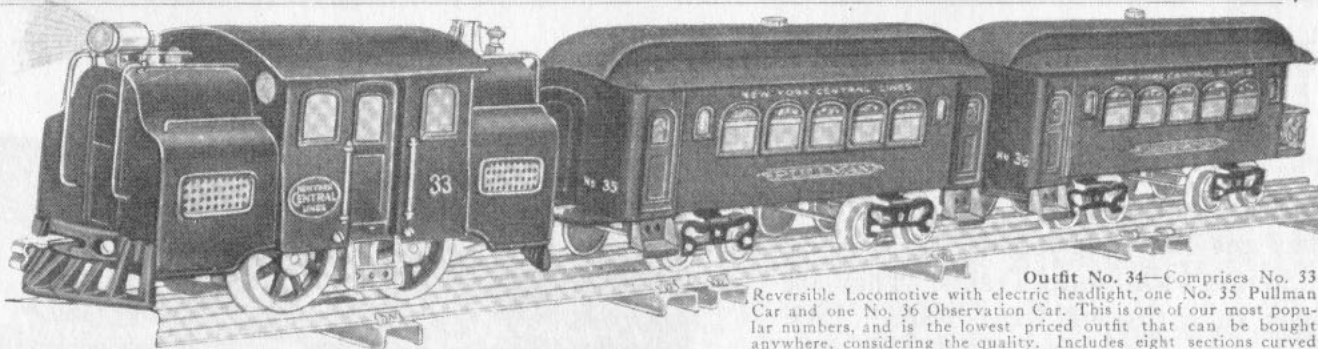
# Train Outfits for "Standard" Gauge Track—2¼ Inches Wide

**"STANDARD OF THE WORLD"  
SINCE NINETEEN HUNDRED**

**B**OYS! Wouldn't you rather recommend to Dad or Mother that they buy you a toy which will be of permanent interest and give you years of honest, sensible enjoyment?

What better investment could there be for your next present than one of these powerful, long-running excellently built Lionel Trains, with either two, three or four cars as shown on this page!

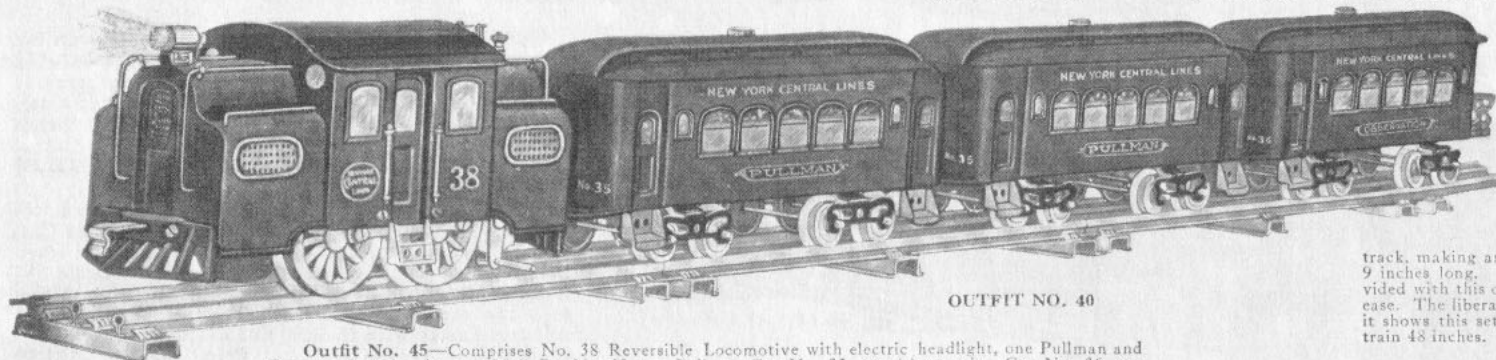
Really, the number of cars makes no difference, for the ever-reliable Lionel Locomotives will pull them all with ease.



OUTFIT NO. 34

**Outfit No. 34**—Comprises No. 33 Reversible Locomotive with electric headlight, one No. 35 Pullman Car and one No. 36 Observation Car. This is one of our most popular numbers, and is the lowest priced outfit that can be bought anywhere, considering the quality. Includes eight sections curved C track (one with electrical connections), and two sections of S track, making an oval 3½ feet wide by 4 feet 8 inches long. The train is 34 inches long.

Code Word "AUBURN"  
Price \*\$22.25, †\$26.50



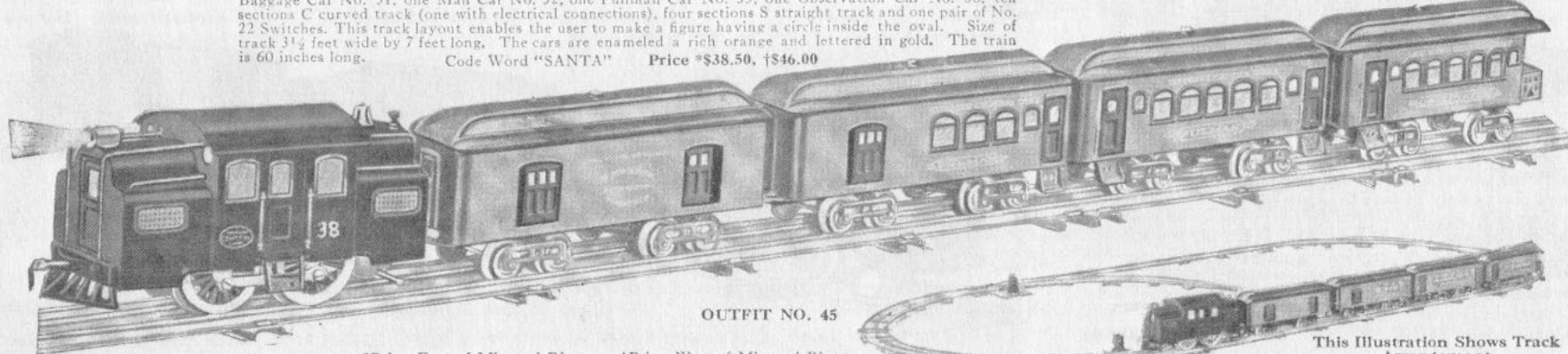
OUTFIT NO. 40

**Outfit No. 40**—Comprises No. 38 Reversible Locomotive with electric headlight, two No. 35 Pullman Cars and one No. 36 Observation Car, eight sections C curved track (one with electrical connections), and four sections of S straight track, making an oval 3½ feet wide by 5 feet 9 inches long. The powerful locomotive provided with this outfit will pull 8 to 12 cars with ease. The liberal amount of track supplied with it shows this set to be big value. Length of train 48 inches.

Code Word "BARROW"  
Price \*\$29.25, †\$35.00

**Outfit No. 45**—Comprises No. 38 Reversible Locomotive with electric headlight, one Pullman and Baggage Car No. 31, one Mail Car No. 32, one Pullman Car No. 35, one Observation Car No. 36, ten sections C curved track (one with electrical connections), four sections S straight track and one pair of No. 22 Switches. This track layout enables the user to make a figure having a circle inside the oval. Size of track 3½ feet wide by 7 feet long. The cars are enameled a rich orange and lettered in gold. The train is 60 inches long.

Code Word "SANTA" Price \*\$38.50, †\$46.00



OUTFIT NO. 45

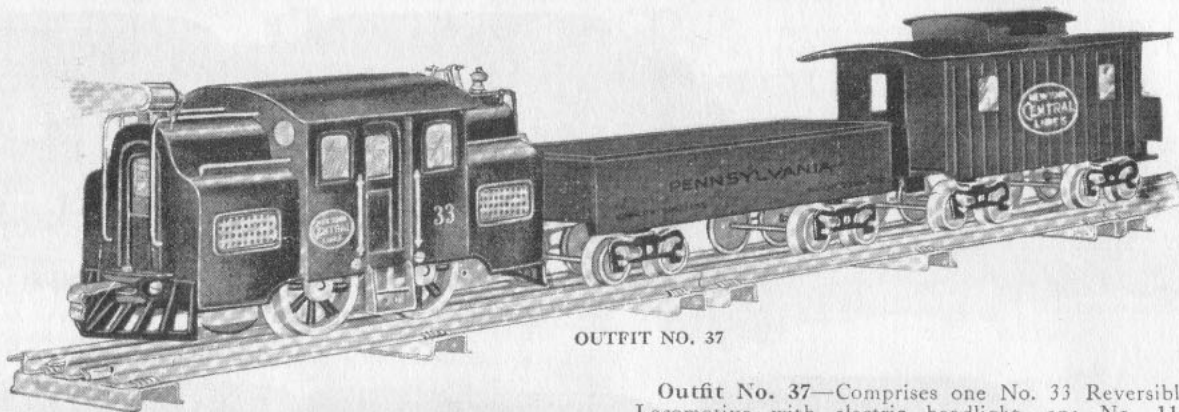
\*Price, East of Missouri River. †Price, West of Missouri River.

This Illustration Shows Track Arrangement



LIONEL Freight Trains look just like those mighty haulers that carry merchandise across the country. The real big freight trains must be sturdily built to withstand the jolts they get on a long journey.

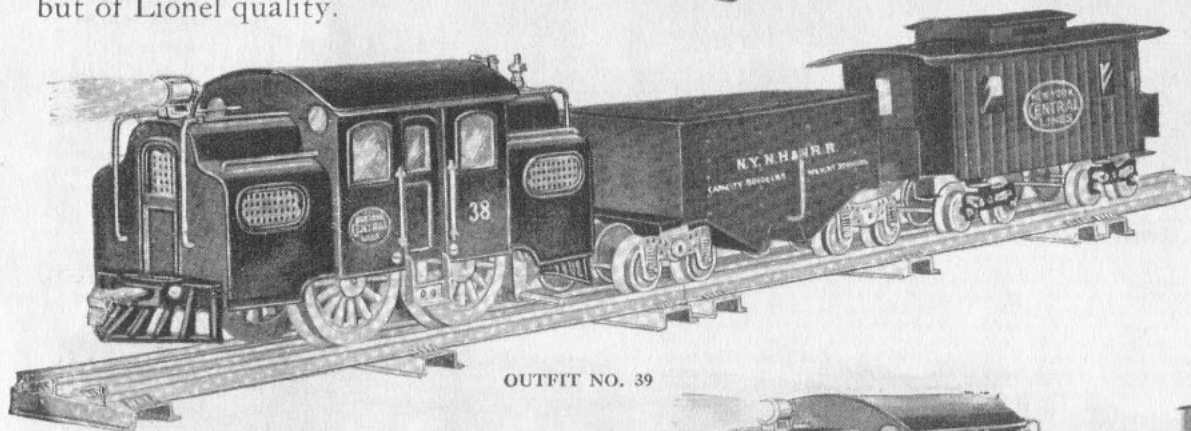
So it is with Lionel Trains. They are built to withstand hard usage. Pick out the freight train you like best on this page. They are all very low-priced, but of Lionel quality.



OUTFIT NO. 37

**Outfit No. 37**—Comprises one No. 33 Reversible Locomotive with electric headlight, one No. 112 Gondola Car, one No. 117 Caboose, and eight sections of C curved track (one with electrical connections), making a circle 3½ feet in diameter. Train is 31 inches long. A good freighter at a low price.

Code Word "CAROLINA" Price \*\$18.50, †\$22.00



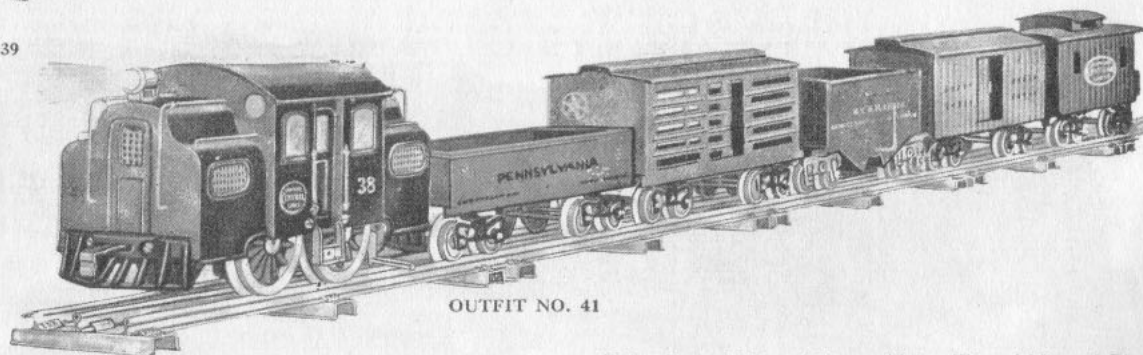
OUTFIT NO. 39

**Outfit No. 39**—Comprises No. 38 Reversible Locomotive with electric headlight, one No. 116 Ballast Car, one No. 117 Caboose, eight sections of C curved track (one with electrical connections), making a circle 3½ feet in diameter. Length of train, 33 inches. Many more cars can be added to this outfit and the locomotive will speed away with them in fine shape.

Code Word "FLORIDA" Price \*\$21.00, †\$25.00

**Outfit No. 41**—This is a very low-priced outfit considering the wonderful hauling power of the locomotive and the variety of cars that are included. Outfit comprises one No. 38 Reversible Locomotive with electric headlight, one each of Nos. 112, 113, 114, 116 and 117 Freight Cars, eight sections C curved track (one with electrical connections), four sections straight track, making an oval 3½ feet wide by 5 feet 9 inches long. The train is 5 feet 3½ inches long.

Code Word "FULTON" Price \*\$29.25, †\$35.00



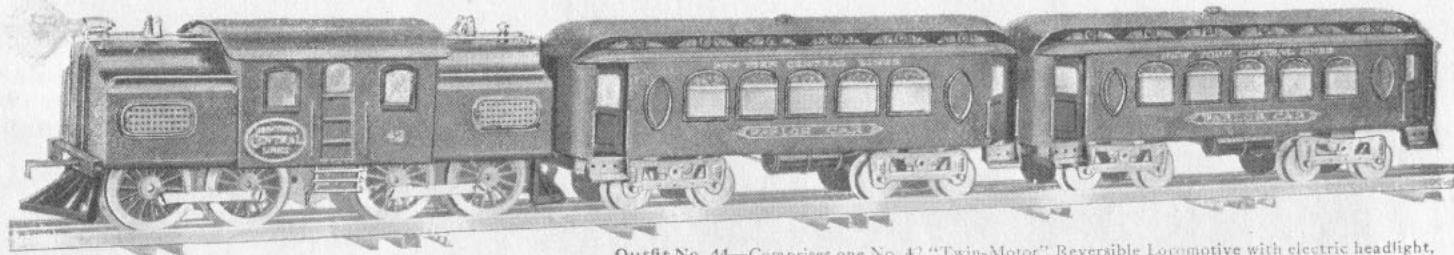
OUTFIT NO. 41

\*Price, East of Missouri River. †Price, West of Missouri River

# "Twin-Motor" Train Outfits for "Standard" Gauge Track—2¼ Inches Wide

MILLIONS OF HAPPY USERS  
THE WORLD OVER

HERE, boys, are the wonderful Lionel Trains with the famous "Twin-Motor" Locomotives. At the big Lionel display rooms in New York there are several of these "Twin-Motor" Locomotives in constant operation pulling twenty of our largest cars! Just think of the fun you will have if you get one of these real trains.

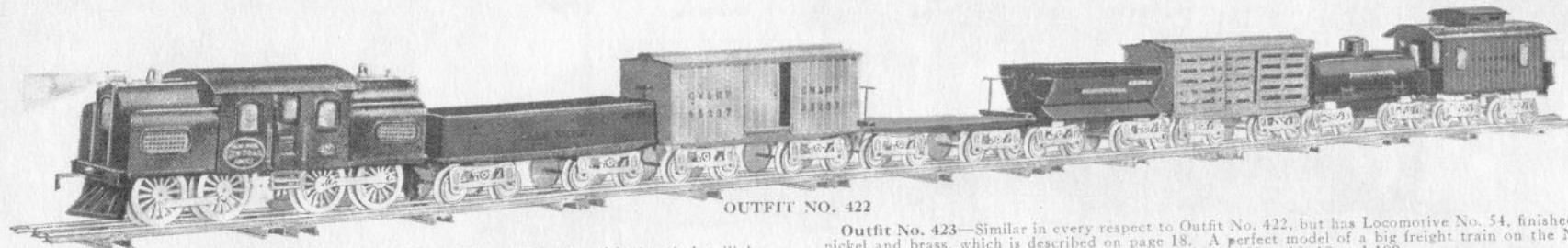


OUTFIT NO. 44

Outfit No. 44—Comprises one No. 42 "Twin-Motor" Reversible Locomotive with electric headlight, two No. 18 Pullman Cars, eight sections C curved track (one with electrical connections) and four sections of S straight track, making an oval 3½ feet wide by 5½ feet long. Complete length of train 52 inches.

Code Word "DOROTHY"

Price \*\$41.75, †\$52.00

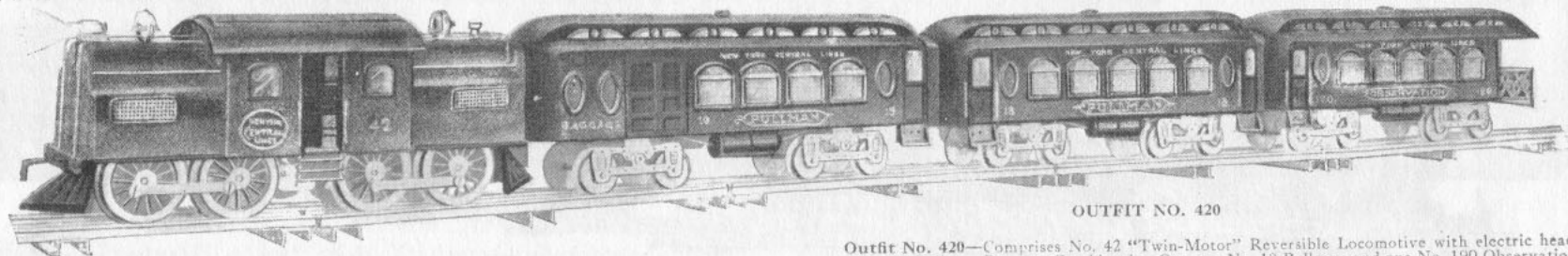


OUTFIT NO. 422

Outfit No. 422—Comprises No. 42 "Twin-Motor" Reversible Locomotive with electric headlight, together with one each of Freight Cars numbered 11, 12, 13, 14, 15, 16 and 17; also ten sections S straight track and eight sections C curved track (one with electrical connections) making an oval 3½ feet wide by 10 feet 5 inches long. The complete train is over 7 feet in length.

Code Word "DURABLE"

Price \*\$52.50, †\$63.00



OUTFIT NO. 420

Outfit No. 421—Similar in all respects to Outfit No. 420, but No. 54 Locomotive is included which is finished in nickel and brass beautifully polished. This is one of our most elaborate Electric Trains. The cars are enameled a rich orange color to match locomotive.

Code Word "SIDONIA"

Price \*\$65.00, †\$78.00

Outfit No. 420—Comprises No. 42 "Twin-Motor" Reversible Locomotive with electric headlight, one No. 19 Pullman Baggage Combination Car, one No. 18 Pullman and one No. 190 Observation Car, eight sections of C curved track (one with electrical connections), and eight sections of S straight track, making oval 3½ feet wide by 8 feet 4 inches long. One of our three-lamp interior lighting sets is included in the outfit. Length of train, 65 inches.

Code Word "HANDSOME"

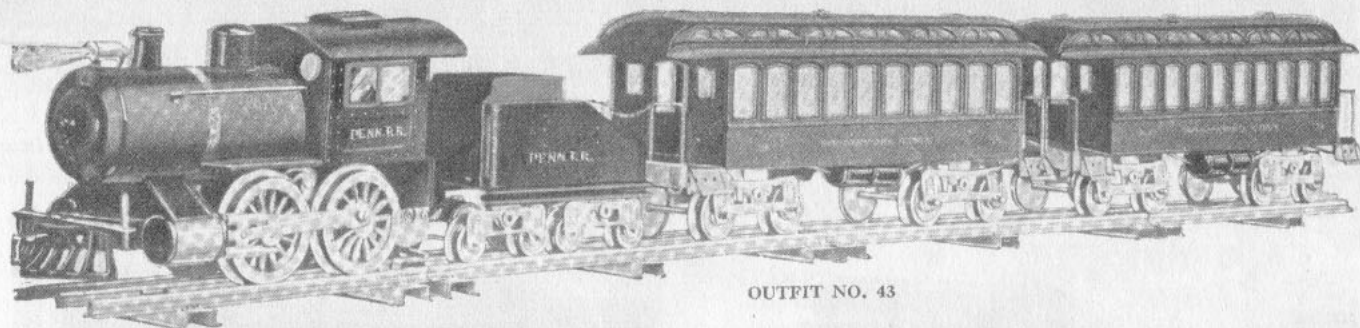
Price \*\$52.50, †\$63.00

\*Price, East of Missouri River. †Price, West of Missouri River.



SOME of you boys possibly prefer a Steam Type Engine, electrically operated. If so, you cannot do better than select one of the trains illustrated below. The engines are true down to the minutest detail—solid steel construction in every part.

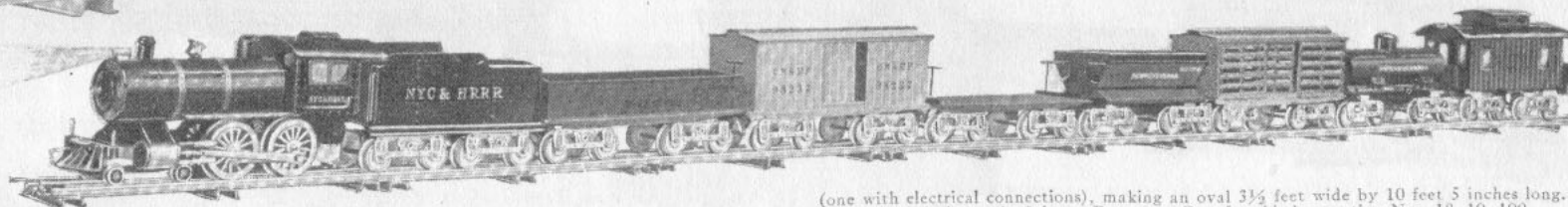
And the motor?—the same electrical perfection as in every other type that bears the Lionel Name.



OUTFIT NO. 43

**Outfit No. 43**—Comprises No. 51 Reversible Locomotive with Tender, 2 No. 18 Pullman Cars, eight sections C curved track (one with electrical connections), and four sections of S straight track, making an oval 5 feet 9 inches long and 3½ feet wide. Complete length of train is 53 inches. The coaches in this outfit are wonderfully realistic. Every detail of the real cars is faithfully carried out. The engine is powerful enough to haul a dozen freight cars or more.

Code Word "LEEDS" Price \*\$35.00, †\$42.00



OUTFIT NO. 622

**Outfit No. 622**—A very faithful model of large freight trains seen on many prominent railroads. Outfit comprises one No. 6 Reversible Locomotive and Tender and one each of the Freight Cars numbered 11, 12, 13, 14, 15, 16 and 17, also ten sections S straight track and eight sections C curved track

(one with electrical connections), making an oval 3½ feet wide by 10 feet 5 inches long. Length of complete train is nearly 8 feet. Passenger Cars for this locomotive Nos. 18, 19, 190.

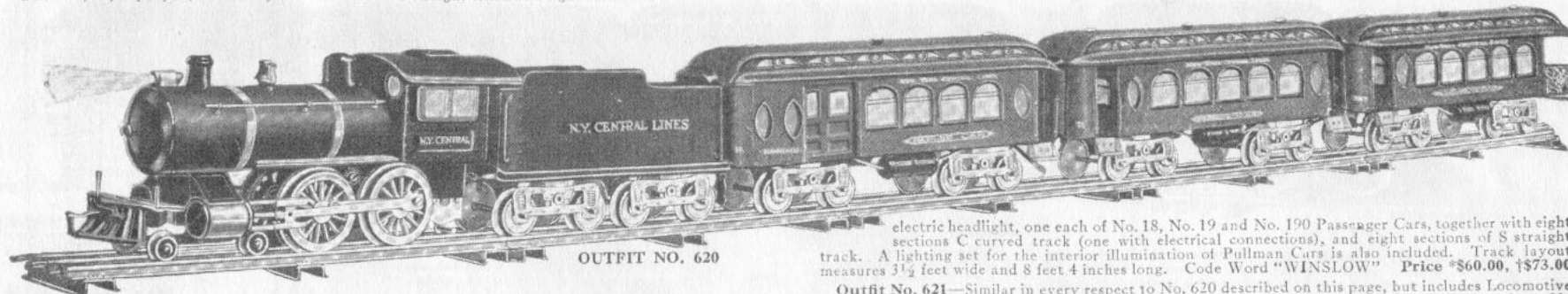
Code Word "TELFORD"

Price \*\$60.00, †\$73.00

**Outfit No. 623**—Similar in every respect to Outfit No. 622, but has Locomotive and Tender No. 7, which is finished in nickel and brass.

Code Word "MONTCLAIR"

Price \*\$78.50, †\$94.00



OUTFIT NO. 620

**Outfit No. 620**—For those who prefer a steam type Pullman train the above can be recommended as the finest model ever built. The outfit includes No. 6 Reversible Locomotive and Tender with

electric headlight, one each of No. 18, No. 19 and No. 190 Passenger Cars, together with eight sections C curved track (one with electrical connections), and eight sections of S straight track. A lighting set for the interior illumination of Pullman Cars is also included. Track layout measures 3½ feet wide and 8 feet 4 inches long. Code Word "WINSLOW" Price \*\$60.00, †\$73.00

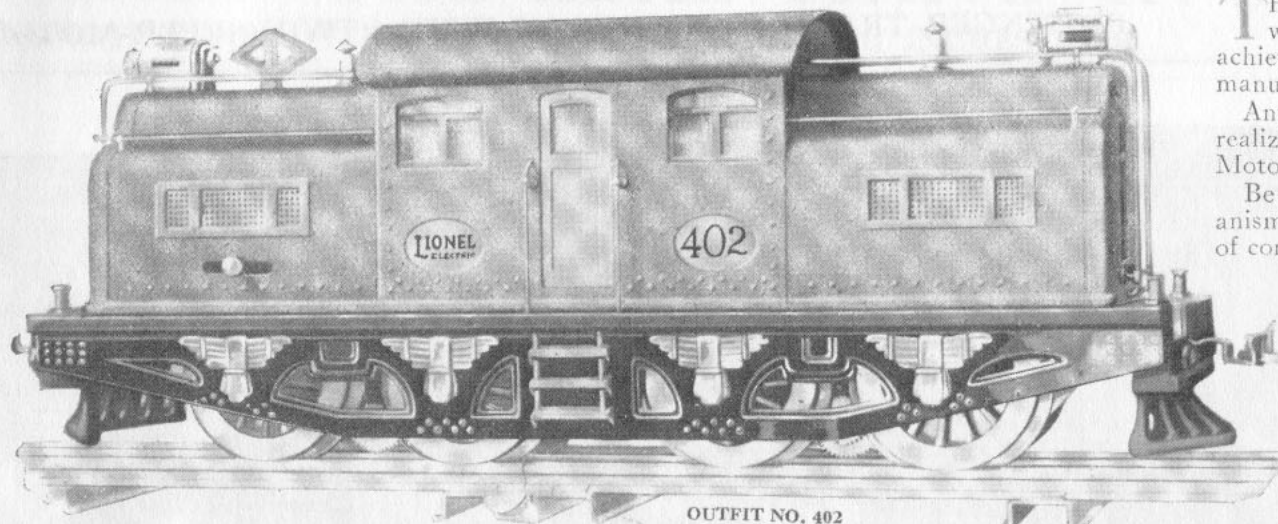
**Outfit No. 621**—Similar in every respect to No. 620 described on this page, but includes Locomotive and Tender No. 7. The cars are enameled a rich orange color to harmonize with the locomotive. No finer outfit is obtainable anywhere.

Code Word "BRANCH"

Price \*\$78.50, †\$94.00

\*Price, East of Missouri River. †Price, West of Missouri River.

# **"Super-Motor" Locomotives for "Standard" Gauge Track—2¼ Inches Wide** **STANDARD OF THE WORLD SINCE NINETEEN HUNDRED**



OUTFIT NO. 402

THE very peak of perfection—that's the only way we can mention the result we have achieved after many years spent in designing and manufacturing Lionel Locomotives.

Any boy will have the ambition of a lifetime realized if he owns one of these new "Super-Motor" Locomotive Outfits.

Be sure to read all about the motor and mechanism on page 9 and about the wonderful details of construction on page 24.

**Locomotive Outfit No. 402, "Twin-Super" Motor**—It is unfair to describe this beautiful model as a toy, for its appearance and efficiency represent the very highest achievement in miniature train construction.

The locomotive is 17½ inches long, 4½ inches wide and 6½ inches high.

Included are 8 sections of C curved track (one with electrical connections) and 4 sections of S straight track, making an oval 5 feet 9 inches long by 3½ feet wide.

Code Word "HAVEN" Price \*\$45.00, †\$55.00

For description of working parts of "Super-Motor" Locomotives see page 9. Details of construction of these new types will be found on next pages.

**Locomotive Outfit No. 380, "Single-Super-Motor"**—This locomotive embodies all the features enumerated in the description of the No. 402 Locomotive, but it is equipped with a single "Super-Motor". It is designed to supply the demand for a low-priced locomotive of the highest efficiency. It will haul at least a dozen of the largest size freight or Pullman cars with perfect ease.

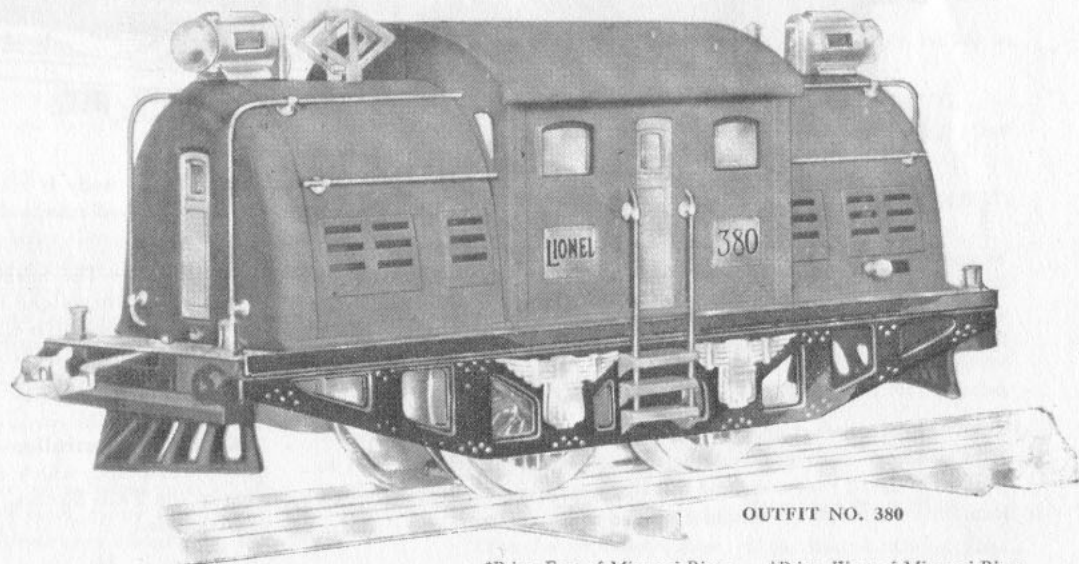
The dimensions of this locomotive are: length 15 inches, width 4 inches, height 6¼ inches above the rails.

Outfit includes 8 sections of C curved track (one with electrical connections) and 4 sections of S straight track, making an oval 5 feet 9 inches long by 3½ feet wide.

Code Word "ROCKIES"

Price \*\$25.00, †\$30.00

See pages 29 and 31 for the Correct Cars to use with these Locomotives



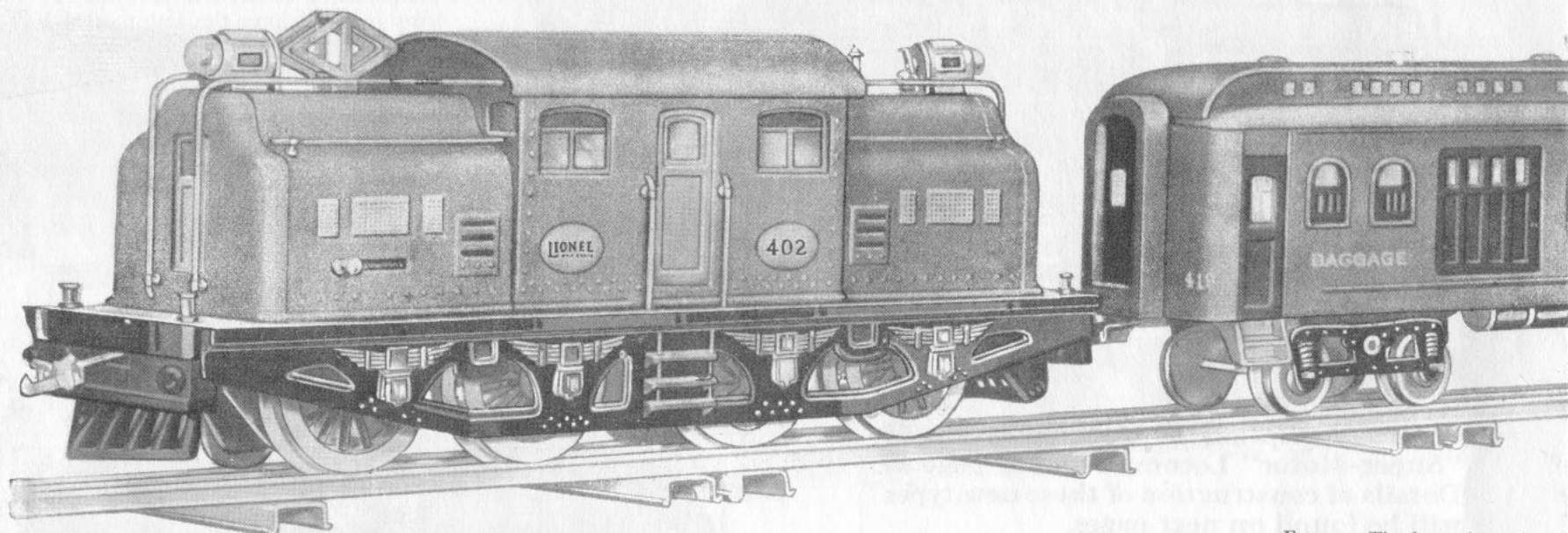
OUTFIT NO. 380

\*Price, East of Missouri River. †Price, West of Missouri River.



# HERE IS THE WONDER TRAIN OF MODERN

PASSENGER TRAIN OUTFIT No. 403 WITH "TWIN-SUPER-MOTOR"



**T**HIS Train Outfit is in every respect a miniature reproduction of a de luxe express train. It is a delight to behold and operates as smoothly as though the wheels were equipped with rubber tires. Even the most superlative terms of description will not be as convincing as seeing the Outfit in operation. It is absolutely the last word in miniature train construction.

## DETAILS OF LOCOMOTIVE

An exact reproduction of the most modern type of electric locomotives used on electrified systems throughout the country. It is so faithful in detail that to behold it is like seeing an actual large electric locomotive through the diminishing end of field glasses.

**Body**—The body is made entirely of steel. The doors, windows, ventilators, hand rails and all other fittings are made of brass highly polished.

**Headlights**—The headlights (one of which is placed at each end of the body) are unique in construction. Each is equipped with a switch so that one or both may be turned on at will. The headlight lamp when illuminated is visible through the green and red panels on the sides of the headlight—a touch of realism that will delight every boy.

**Reversing Controller**—A lever is conveniently placed on the side of the locomotive which operates simultaneously the controllers on each of the Twin-Motors. This is a great step forward in controller construction.

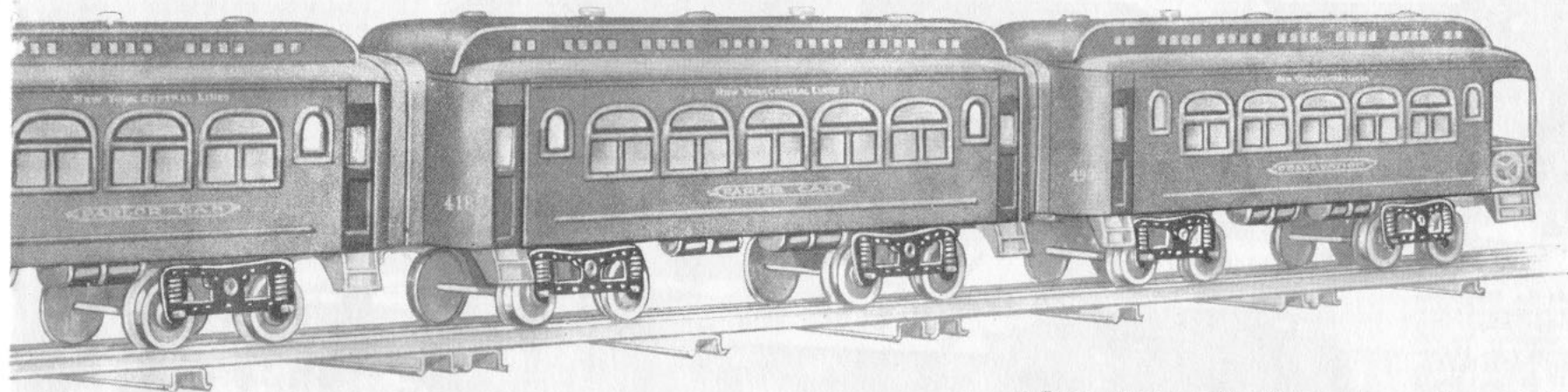
**Frame**—The frame is made of steel, made of brass and beautifully nickeled. Numerous rivets and other structural details in the frame, all of which accentuate the realism of the locomotive.

**Automatic Couplers**—This locomotive has automatic couplers that protrude over the designed cowcatchers. These automatic couplers are similar to those used on any similar device, for they are identical in operation irrespective of the position in conjunction with any type of non-reversing locomotive.

**Enamel Finish**—The enamel is baked at a high temperature, which insures a permanent finish.

# N TIMES—THE REAL THING—IN MINIATURE

LOCOMOTIVE FOR "STANDARD" GAUGE TRACK—2¼ INCHES WIDE



years. It is only necessary to rub the finish with a cloth or chamois to keep the locomotive always bright and new looking.

## DETAILS OF CARS

These Pullman Cars are faithful reproductions in every detail of the most modern passenger cars used on the best railroads. The bodies are made of heavy sheet steel and the parts are rigidly held together. The detail of construction is enhanced by embossed work in the nature of panels, rivets, sashes, etc. Two miniature tanks as well as nickel-plated steps and hand rails add to the great detail incorporated in these cars. The roof is removable and the interior contains individual revolving seats and two permanent electric bulbs which illuminate the car. The light coming through the glass windows adds a very realistic touch to the train.

These cars are enameled in very attractive colors baked on at a high temperature so that they always retain their fresh, glossy appearance. It is impossible to describe the beauty of these cars adequately, but

suffice to say that nothing like them has ever been made before as toy railroad equipment.

The combination Pullman and Baggage Car contains a baggage compartment with sliding doors and the platform of the Observation Car is complete in detail even to the light in the ceiling.

The three new cars forming the series are listed separately on page 29.

The Locomotive Outfit is listed separately on page 23.

**Outfit No. 403**—Comprises No. 402 "Twin-Super-Motor" Locomotive, 1 No. 418 Pullman Car, 1 No. 419 Pullman and Baggage Car, 1 No. 490 Observation Car, all with permanent interior lighting equipment, also 8 sections of S straight track and 8 sections of C curved track (one with electrical connections), making an oval 8 feet 4 inches long by 3½ feet wide.

The complete train is 77 inches long.

Code Word "PRETTY"

Price **\*\$75.00, †\$90.00**

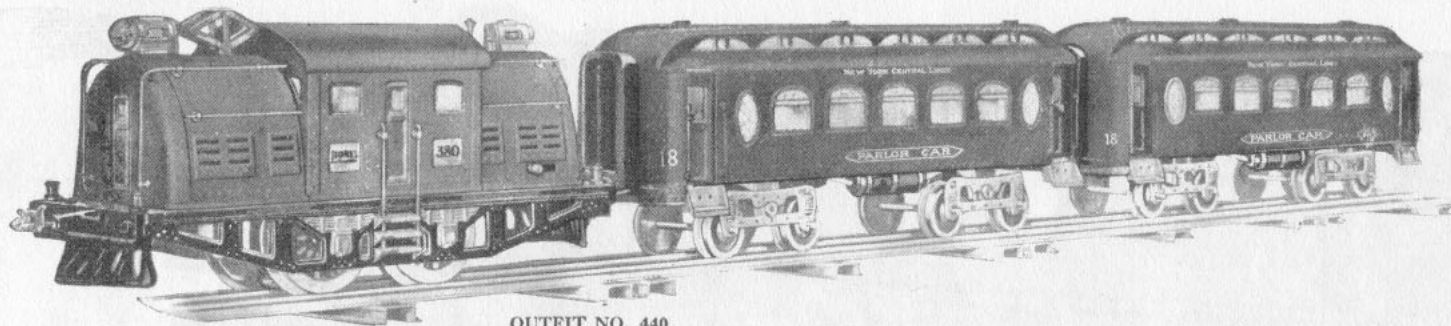
\*Price, East of Missouri River. †Price, West of Missouri River.



**R**IGHT up to the minute! These Train Outfits include the very latest models of electric engines containing the new Lionel "Super-Motors". Year by year the great railroads of America electrify their systems, and as new types of electric engines are introduced, Lionel loses no time in reproducing them faithfully.

On page 9 you will learn all about these wonderful motors, and on page 23 the remarkable superstructure and detail are described.

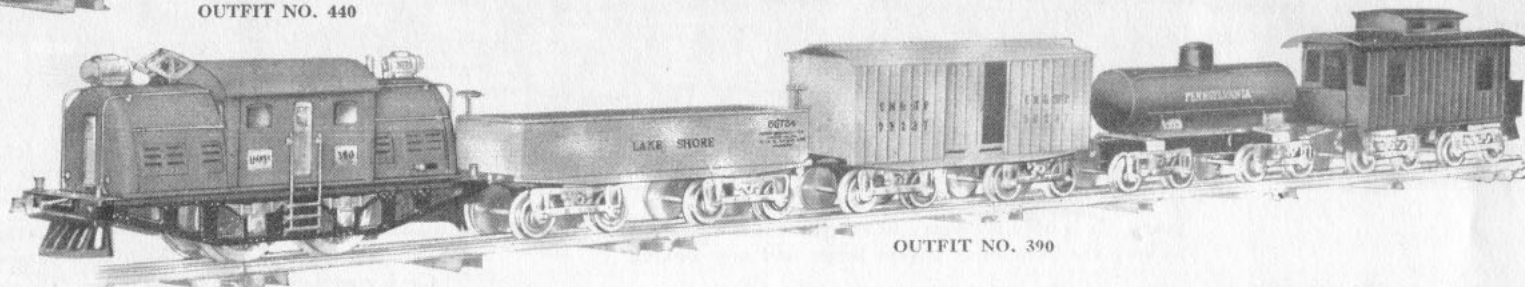
Power?—no load is too great for these giant haulers.



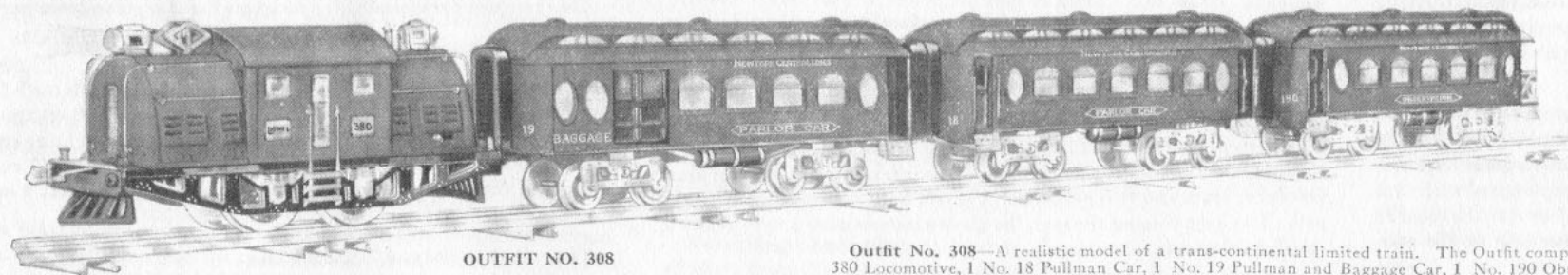
OUTFIT NO. 440

**Outfit No. 390**—A perfect reproduction of a modern freight train. The Outfit comprises No. 380 Locomotive, 1 No. 12 Gondola Car, 1 No. 14 Box Car, 1 No. 15 Oil Car, 1 No. 17 Caboose, 8 sections of C curved track (one with electrical connections), and 4 sections of S straight track, making an oval 5 feet 9 inches long by 3½ feet wide. The complete train is 65 inches long.

Code Word "PELHAM"  
Price \*\$37.50, †\$45.00



OUTFIT NO. 390



OUTFIT NO. 308

**Outfit No. 308**—A realistic model of a trans-continental limited train. The Outfit comprises No. 380 Locomotive, 1 No. 18 Pullman Car, 1 No. 19 Pullman and Baggage Car, 1 No. 190 Observation Car, 8 sections of C curved track (one with electrical connections) and 8 sections of S straight track, making an oval 8 feet 4 inches long by 3½ feet wide.

The complete train is 5 feet 5 inches long.

Code Word "MONTY"

Price \*\$48.50, †\$58.00

\*Price, East of Missouri River. †Price, West of Missouri River.

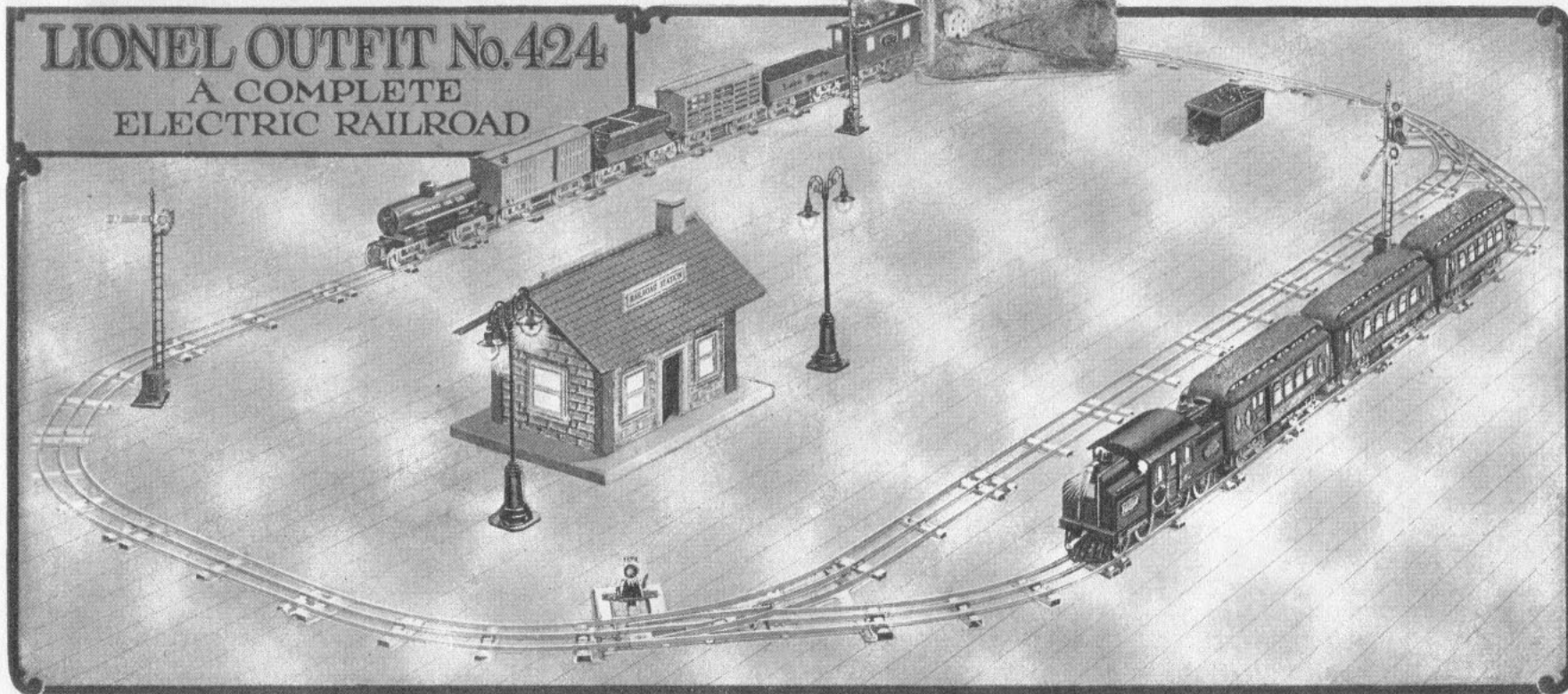
# Complete Railroad Outfit for "Standard" Gauge Track—2¼ Inches Wide

**"STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED**

**Y**ES, Boys! A complete Lionel Railroad. It comes to you all packed in one substantial box.

Read below and see what a wonderful lot of equipment you get with this outfit—even extra lamps in case some should burn out. If you have

direct or alternating current we will supply the proper apparatus for you to use. Nothing to do but turn on the current after you get this railroad and then—loads and loads of fun for you and your friends.



## EQUIPMENT WITH OUTFIT NO. 424

One No. 42 "Twin-Motor" Reversible Locomotive with electric headlight.  
One No. 18 Pullman Car.  
One No. 19 Pullman and Baggage Car.  
One No. 190 Observation Car.  
One No. 12 Gondola Car.  
One No. 13 Cattle Car.  
One No. 14 Box Car.  
One No. 15 Oil Car.  
One No. 16 Ballast Car.  
One No. 17 Caboose.

Two No. 67 Lamp Posts fitted with No. 49 21-volt globe.  
Two No. 65 Semaphores fitted with No. 48 21-volt lamps.  
One No. 66 Semaphore fitted with No. 48 21-volt lamps.  
One Pair No. 21S switches fitted with No. 48 21-volt lamps.  
One No. 217 Interior Car Lighting Set fitted with No. 26 14-volt lamps.

Seven sections C curved track.  
One section CC curved track, with electrical connections.  
Eighteen sections S straight track.  
One section ½ S straight track.  
One Type K Transformer for 110 volts alternating current, or No. 107 Direct Current Reducer if desired.  
One No. 121 Station.  
One No. 120 Tunnel.

## LAMP RENEWALS

Two No. 26 14-Volt Lamps for headlights.  
Two No. 48 21-Volt Lamps for switches.  
Two No. 49 21-Volt Globes for lamp posts.

**Track Layout Is 11 Feet Long and 6 Feet 10 Inches Wide**

Code Word "DESIRABLE"

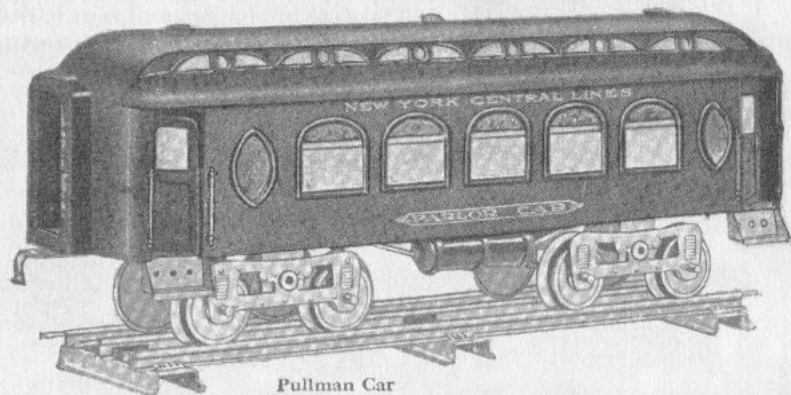
**Price \*\$120.00, †\$144.00**

\*Price, East of Missouri River  
†Price, West of Missouri River.

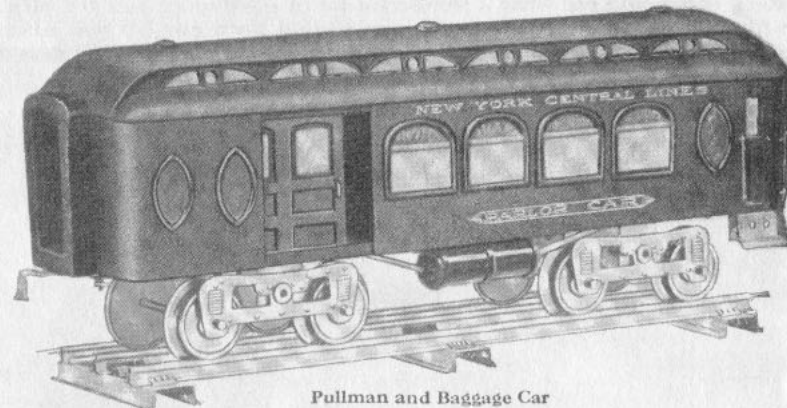


**B**OYS! Don't these cars look real? No wonder, because we model them after the very latest types used by all the big railroads.

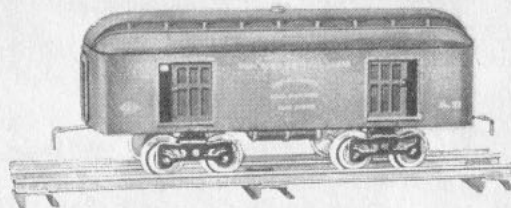
You want realism in the things you play with—that's why we spare no effort to make Lionel Cars what they are—real railroad cars in miniature.



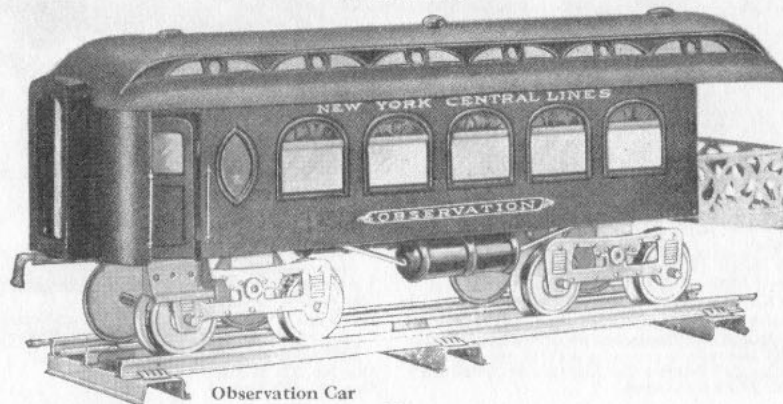
Pullman Car



Pullman and Baggage Car



U. S. Mail Car



Observation Car

**W**E mention with particular pride that Lionel Passenger Cars have always been faithful models of the originals, which places them far above any similar toys. All cars are constructed of sheet steel and embody the "one-piece" principle as described in the introduction. Lionel cars are not cheaply lithographed, but are hand enameled and are striped and lettered in gold. The doors are hinged, platforms are vestibuled, and colored or clear glass is inserted in the windows, doors and ventilators. These windows are inserted by a new process which insures their staying in place for the life of the car.

**A**ll roofs are removable and provision is made for placing a series of lights in the cars which operate on "Standard" gauge track. The lighting outfits for this purpose are described on page 43. A wonderfully realistic effect is produced by the lights shining through the colored windows. Cars are mounted on flexible trucks, which insures smooth running and staying on the track, even when rounding curves at great speed. The various sized passenger cars in conjunction with our different types of locomotives are shown throughout this catalogue.

# Passenger and Mail Cars for "Standard" and "O" Gauge Track

**M**ILLIONS OF HAPPY USERS  
THE WORLD OVER

(See Opposite Page for Illustrations)

## For "O" Gauge Track—1 $\frac{3}{8}$ Inches Wide

**No. 600—Pullman Car**, 6 inches long, 2 inches wide, 3 inches high.  
Code Word "HORNBY" Price \*\$0.50, †\$0.60

*Above is for use with "O" Locomotives Nos. 150-158 and is mounted on a four-wheel truck—all other cars have two four-wheel trucks.*

**No. 601—Pullman Car**, 7 $\frac{1}{2}$  inches long, 2 $\frac{3}{8}$  inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "HILTON" Price \*\$1.25, †\$1.50

**No. 602—Mail Car**, 7 $\frac{1}{2}$  inches long, 2 $\frac{3}{8}$  inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "LEYTON" Price \*\$1.25, †\$1.50

*Above two cars are for use with "O" Gauge Locomotives Nos. 152-154.*

**No. 603—Pullman Car**, 7 inches long, 2 inches wide, 3 $\frac{1}{4}$  inches high.  
Code Word "BURTON" Price \*\$1.15, †\$1.40

**No. 604—Observation Car**, 7 inches long, 2 inches wide, 3 $\frac{1}{4}$  inches high.  
Code Word "MONARCH" Price \*\$1.15, †\$1.40

*Above two cars are for use with "O" Gauge Locomotives Nos. 150, 158.*

**No. 610—Pullman Car**, 8 $\frac{3}{4}$  inches long, 2 $\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "EALING" Price \*\$2.50, †\$3.00

**No. 612—Observation Car**, 8 $\frac{3}{4}$  inches long, 2 $\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "WALTON" Price \*\$2.50, †\$3.00

*Above two cars are for use with "O" Gauge Locomotive No. 156 and 156X.*

## For "Standard" Gauge Track—2 $\frac{1}{4}$ Inches Wide

**No. 31—Pullman and Baggage Car**, 11 inches long, 3 inches wide, 5 inches high.  
Code Word "CAPI" Price \*\$3.35, †\$4.00

**No. 32—Mail Car**, 11 inches long, 3 inches wide, 5 inches high.  
Code Word "BILL" Price \*\$3.35, †\$4.00

**No. 35—Pullman Car**, 11 inches long, 3 inches wide, 5 inches high.  
Code Word "CAMDEN" Price \*\$3.35, †\$4.00

**No. 36—Observation Car**, 11 inches long, 3 inches wide, 5 inches high.  
Code Word "FLINT" Price \*\$3.35, †\$4.00

*Above four cars are for use with "Standard" Gauge Locomotives Nos. 33 and 38.*

**No. 18—Pullman Car**, 16 $\frac{1}{2}$  inches long, 3 $\frac{1}{2}$  inches wide, 6 inches high.  
Code Word "PHILA" Price \*\$6.25, †\$7.50

**No. 19—Pullman and Baggage Car**, 16 $\frac{1}{2}$  inches long, 3 $\frac{1}{2}$  inches wide, 6 inches high.  
Code Word "TROY" Price \*\$6.75, †\$8.00

**No. 190—Observation Car**, 16 $\frac{1}{2}$  inches long, 3 $\frac{1}{2}$  inches wide, 6 inches high.  
Code Word "VIRGINIA" Price \*\$6.75, †\$8.00

*Above series of three cars are for use with all "Standard" Gauge Locomotives, excepting Nos. 33 and 38.*

**No. 418 Pullman Car**, 20 inches long, 4 $\frac{1}{2}$  inches wide and 6 inches high. Has two permanent interior lights. Code Word "COMFORT" Price \*\$8.50, †\$10.00

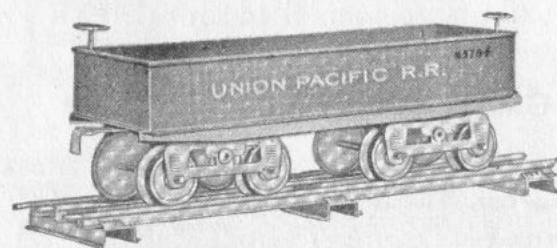
**No. 419 Pullman and Baggage Car**, 20 inches long, 4 $\frac{1}{2}$  inches wide and 6 inches high. Has two permanent interior lights and baggage compartment with sliding doors. Code Word "COURT" Price \*\$8.50, †\$10.00

**No. 490 Observation Car**, 20 inches long, 4 $\frac{1}{2}$  inches wide and 6 inches high. Has observation platform and two permanent interior lights, one of which is placed under the observation canopy. Code Word "CABIN" Price \*\$8.50, †\$10.00

*Above series of three cars are for use with "Super-Twin-Motor" Locomotive No. 402.*

\*Price, East of Missouri River. †Price, West of Missouri River.

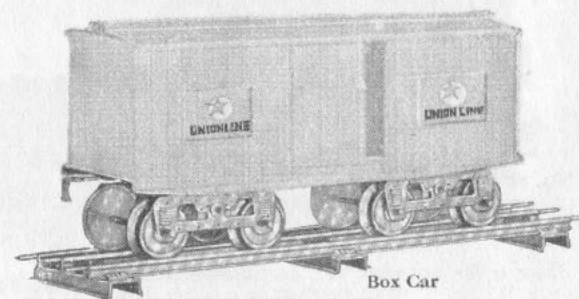




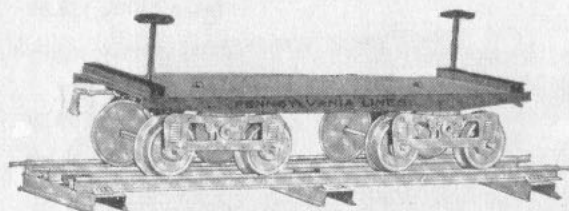
Gondola

ALL these cars are constructed throughout of sheet steel. The individuality of each style of car has been studied and copied faithfully. They will not come apart or bend out of shape. All trucks are flexible, which means that they will not jump the track while running either forward or backward. They move so easily that one of our locomotives will haul a number of them without difficulty. The wheels are made of steel, and are reinforced at the back with heavy steel discs. They are mounted on solid Bessemer steel shafts. No wood enters the construction of these cars.

All the roofs are removable and doors slide so that the interior of the cars can be easily reached. Trucks and wheels are nicked. The construction of all cars is similar in every respect, but vary in size in accordance with the locomotive with which they are intended to be operated. All the cars are hand enameled and trimmed and are appropriately decorated with the "heralds" of the most prominent railroads.

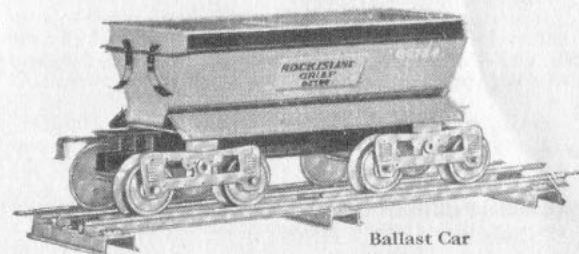


Box Car

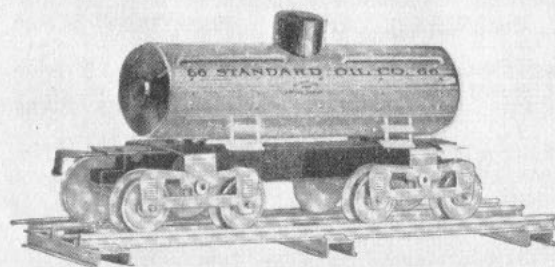


Flat Car

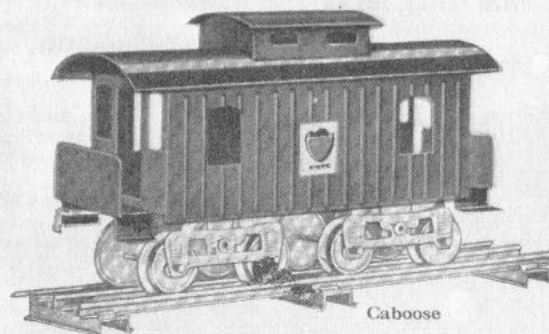
Made of Steel  
 These Are Real Miniature Freight  
 Cars, Rigidly Constructed



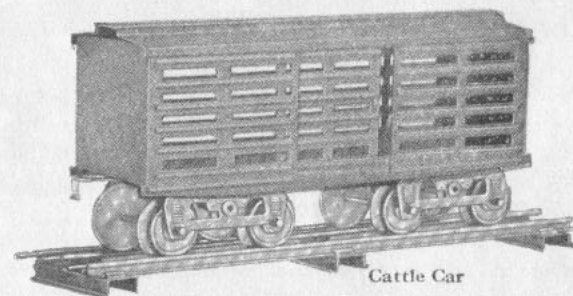
Ballast Car



Oil Car



Caboose



Cattle Car

# Freight Cars for "Standard" and "O" Gauge Track

**STANDARD OF THE WORLD**  
SINCE NINETEEN HUNDRED

(See Opposite Page for Illustrations)

## For "O" Gauge Track—1 $\frac{3}{8}$ Inches Wide

**No. 800—Box Car**, 6 inches long, 2 inches wide, 3 inches high.  
Code Word "CHANDLER" **Price \*\$0.50, †\$0.60**

**No. 801—Caboose**, 6 inches long, 2 inches wide, 3 $\frac{1}{4}$  inches high.  
Code Word "CONNERTON" **Price \*\$0.50, †\$0.60**

**No. 802—Cattle Car**, 6 inches long, 2 inches wide, 3 inches high.  
Code Word "CHICKASAW" **Price \*0.50, †\$0.60**

**No. 803—Coal Car**, 7 inches long, 2 inches wide, 3 inches high. Has "Hopper" bottom.  
Code Word "LOAD" **Price \*\$0.65, †0.80**

**No. 804—Oil Car**, 7 inches long, 2 inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "FUEL" **Price \*\$0.60, †\$0.70**

**No. 901—Gondola Car**, 6 inches long, 2 inches wide, 2 inches high.  
Code Word "CHIMES" **Price \*\$0.40, †\$0.50**

*The above six cars are for use with Locomotive Nos. 150, No. 152 and No. 158, and are mounted on four-wheel trucks. All other freight cars have two four-wheel trucks.*

**No. 820—Box Car**, 7 $\frac{1}{2}$  inches long, 2 $\frac{3}{8}$  inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "ECOLA" **Price \*\$1.25, †\$1.50**

**No. 822—Caboose**, 7 $\frac{1}{2}$  inches long, 2 $\frac{3}{8}$  inches wide, 3 $\frac{3}{4}$  inches high.  
Code Word "ELIXIR" **Price \*\$1.25, †\$1.50**

*Above two cars for use with all "O" Gauge Locomotives, excepting Nos. 150 and 158.*

## For "Standard" Gauge Track—2 $\frac{1}{4}$ Inches Wide

**No. 112—Gondola Car**, 9 $\frac{1}{2}$  inches long, 3 inches wide, 2 $\frac{1}{2}$  inches high.  
Code Word "ELMIRA" **Price \*\$1.50, †\$1.80**

**No. 113—Cattle Car**, 9 $\frac{1}{2}$  inches long, 3 inches wide, 4 $\frac{1}{2}$  inches high.  
Code Word "SYRACUSE" **Price \*\$2.10, †\$2.50**

**No. 114—Box Car**, 9 $\frac{1}{2}$  inches long, 3 inches wide, 4 $\frac{1}{4}$  inches high.  
Code Word "HAZLETON" **Price \*\$2.10, †\$2.50**

**No. 116—Ballast Car**, 9 $\frac{1}{2}$  inches long, 3 inches wide, 3 $\frac{3}{4}$  inches high.  
Code Word "SCRANTON" **Price \*\$2.10, †\$2.50**

**No. 117—Caboose**, 9 $\frac{3}{4}$  inches long, 3 inches wide, 4 $\frac{3}{4}$  inches high.  
Code Word "TOLEDO" **Price \*\$2.10, †\$2.50**

*This series of five cars for use with Locomotives Nos. 33 and 38.*

**No. 11—Flat Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "MASS" **Price \*\$2.10, †\$2.50**

**No. 12—Gondola Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 3 $\frac{1}{2}$  inches high.  
Code Word "VERMONT" **Price \*\$2.95, †\$3.50**

**No. 13—Cattle Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 5 $\frac{1}{2}$  inches high.  
Code Word "HAMPSHIRE" **Price \*\$3.35, †\$4.00**

**No. 14—Box Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 5 $\frac{1}{2}$  inches high.  
Code Word "MAINE" **Price \*\$3.35, †\$4.00**

**No. 15—Oil Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 5 $\frac{1}{4}$  inches high.  
Code Word "QUEBEC" **Price \*\$3.35, †\$4.00**

**No. 16—Ballast Car**, 11 inches long, 3 $\frac{1}{2}$  inches wide, 4 $\frac{3}{4}$  inches high.  
Code Word "ONTARIO" **Price \*\$3.35, †\$4.00**

**No. 17—Caboose**, 9 $\frac{3}{4}$  inches long, 3 $\frac{1}{2}$  inches wide, 6 $\frac{1}{2}$  inches high.  
Code Word "TORONTO" **Price \*\$3.35, †\$4.00**

*The above seven cars are for use with all Locomotives, excepting Nos. 33 and 38.*

\*Price, East of Missouri River. †Price, West of Missouri River.

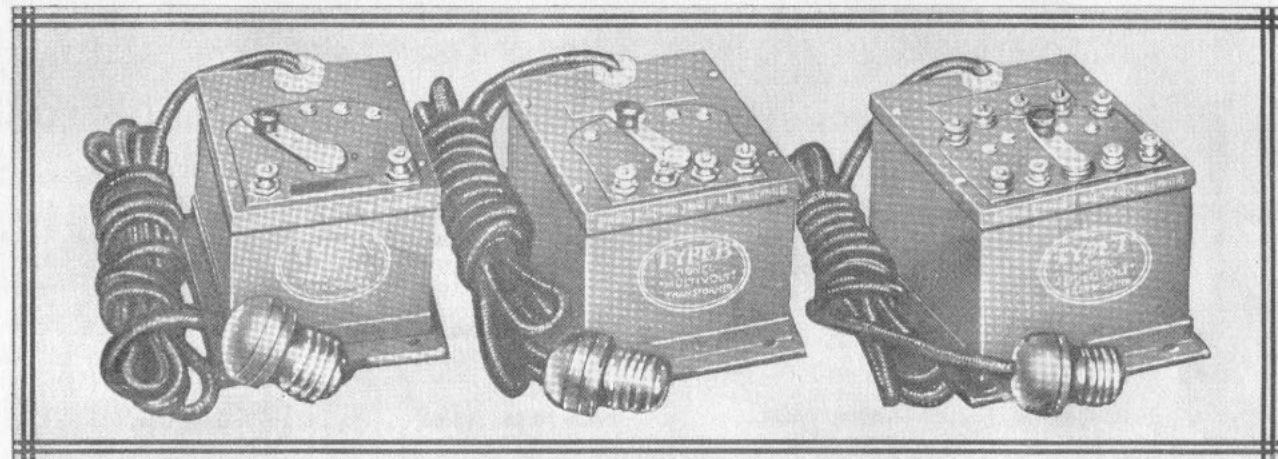


### UNLIMITED POWER AT LITTLE COST

"Multivolt" Transformers reduce the 110 volt house lighting alternating current to the few volts necessary for operating electric toys or various other appliances. (A special transformer is made for 220 volts alternating current.)

**Connect with House Circuit**—A flexible lamp cord is directly connected with the transformer. The plug fits any lamp socket. If your house lighting circuit is 110 volts alternating current and you require 6 volts to operate a train set or other small electrical apparatus, this voltage can be obtained from any of our transformers by connecting the binding posts indicated on the index plate. You turn on the current and your "Multivolt" Transformer does the rest.

**Useful for Many Purposes**—"Multivolt" Transformers are made to operate Lionel Electric Toys, but can be used for any electrical apparatus or any other toys which demand the current within their range, such as induction coils, annunciators, bells, burglar alarms, wireless apparatus, etc., etc.



Type "A" Transformer will operate any "O" gauge outfit

For 110 volts, 60 cycles. 40 watts capacity.  
Gives 15 volts in following steps: 4, 7, 10, 13, 15.

Size:  $4\frac{1}{4}$  x  $2\frac{3}{4}$  by  $4\frac{1}{4}$  inches. Sub-base:  $3\frac{3}{4}$  x  $4\frac{3}{4}$  inches.

Code Word "STRONG"

Price \*\$3.65, †\$4.30

Type "B" Transformer will operate any "O" gauge outfit, and in addition the extra binding posts enable the users to light up lamp posts, semaphores and other electrically illuminated accessories.

For 110 volts, 60 cycles. 50 watts capacity.  
Gives 25 volts in following steps:  
Permanent: 7, 8, 15.

Variable: 2, 4, 6, 8, 9, 10, 11, 12, 13, 17, 19, 21, 23, 25.

Size:  $4\frac{1}{2}$  x  $3\frac{3}{4}$  by 3 inches. Sub-base: 5 by  $4\frac{1}{4}$  inches.

Code Word "BRADLEY"

Price \*\$5.00, †\$6.00

Type "T" Transformer will operate any "O" gauge or "Standard" gauge outfit; also has extra binding posts for attaching illuminated electrical accessories.

For 110 volts, 60 cycles. 100 watts capacity.  
Gives 25 volts in following steps:

Permanent: 2, 4, 6, 7, 8, 10, 12, 14, 15, 16, 17, 18, 19, 21, 23, 25.

Variable: 2, 6, 8, 10, 12, 14, 16, 17, 18, 19, 21, 23, 25.

Size: 5 by 4 by  $3\frac{3}{4}$  inches. Sub-base:  $4\frac{1}{2}$  by  $5\frac{1}{2}$  inches.

Code Word "BIRCH"

Price \*\$7.50, †\$9.00

### Details of Construction

**Sub-Base**—A metal sub-base resting on four supports is attached to the bottom. The air circulating between this sub-base and the transformer case keeps it cool while in operation. Screw holes in this sub-base provide means for fastening the transformer to wall or table.

**Separable Plug**—All "Multivolt" Transformers are fitted with an approved, separable plug, which is a distinct advantage over the one-piece plug, because the circuit can be immediately broken when desired.

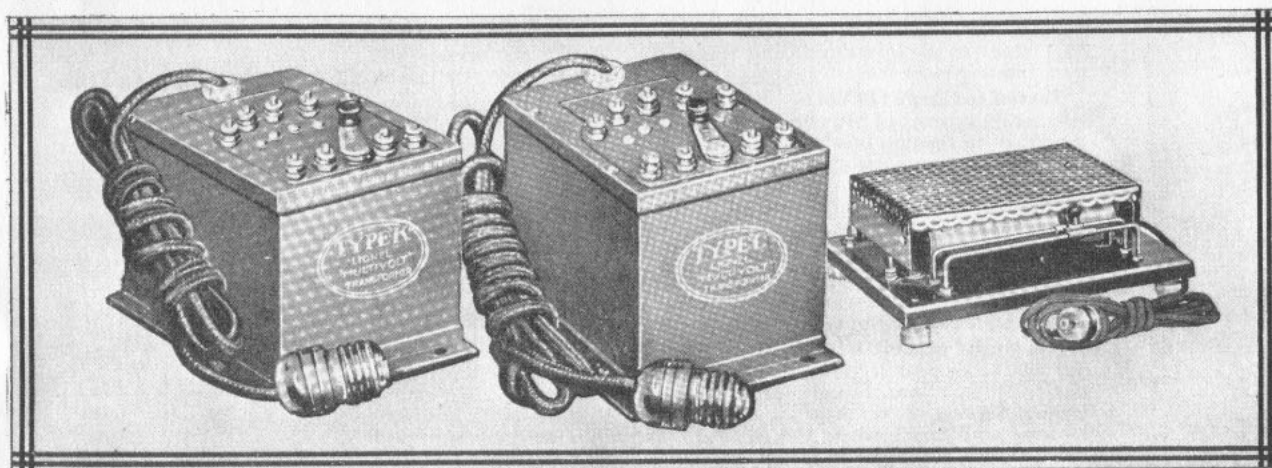
**Plug Protecting Device**—We have applied for a patent on a unique receptacle for protecting the plug against breakage in shipment. This device consists of a wooden container entirely covering the plug. It is sealed with a conspicuous label which draws the attention of the user to the fact that the transformer must be used **only** on **alternating** current of the number of cycles designated. This obviates the possibility of connecting the transformer with wrong current, which will consequently avoid mishandling and disappointment.

**Double Contact Control Switch**—This is new and infinitely superior to the one-piece switch, which is easily bent and does not make positive contact. Our double switch has a flexible, phosphor-bronze contact arm under the rigid switch, so that positive contact with the points is assured. This flexible contact is protected from injury by the rigid brass handle to which it is attached. This feature cannot be found on any other type of toy transformer.

**Laminations**—The laminations are made of the best grade of electrical sheets and the windings are perfectly insulated.

**Rigid Supports for Coils**—The coils and laminations of Lionel "Multivolt" Transformers are rigidly supported inside the case by means of metal bands which prevent these parts from moving and eliminate the possibility of broken lead wires. In addition to these supports the interior of the case is fitted with an insulating receptacle and the case is air cooled.

\*Price, East of Missouri River. †Price, West of Missouri River.



Type "K" Transformer will operate any outfit as well as illuminated accessories. This transformer has sufficient wattage capacity to operate two trains at once.

Size: 5 by 4 by  $4\frac{1}{2}$  inches. Sub-base:  $4\frac{1}{2}$  by  $5\frac{1}{2}$  inches.

"K"—For 110 volts, 60 cycles. 150 watts capacity. Specifications same as Type "T", but has higher wattage capacity.

Code Word (110 V.) "BINGHAM"

Price \*\$11.00, †\$13.00

"K"—For 220 volts, 60 cycles. 150 watts capacity. Specifications same as Type "T", but is for use on 220-volt circuit.

Code Word (220 V.) "BROOK"

Price \*\$14.50, †\$17.00

**Metal Case**—The case is beautiful in design and is stamped of heavier steel than is required by the National Board of Fire Underwriters.

**Finish**—"Multivolt" Transformer cases are covered with a rubberoid composition that is applied at 350 degrees Fahrenheit. This is much greater heat than the case is ever subjected to while in use, and the finish cannot be scratched and will not peel off, thereby insuring a beautiful finish for the entire life of the transformer.

**Visible Connections**—All contacts and switches are mounted on one piece of heavy insulating material and are at the top of the transformer, right under the user's eyes.

**Lamp Cord**—All "Multivolt" Transformers are fitted with 7 feet of flexible lamp cord which enters the transformer case through an approved porcelain bushing.

From the above specifications it will be clearly seen that we have incorporated in "Multivolt" Transformers every possible device that will increase their efficiency and safety.

Type "C" Transformer will operate any outfit and illuminated accessories on 25 or 40 cycle current.

For 110 volts, 25 to 40 cycles. 75 watts capacity. Specifications same as Type "T", but is for use on 25 or 40 cycle current.

Size: 5 by 4 by  $4\frac{1}{2}$  inches. Sub-base:  $4\frac{1}{2}$  by  $5\frac{1}{2}$  inches.

Code Word "LAWRENCE"

Price \*\$7.50, †\$9.00

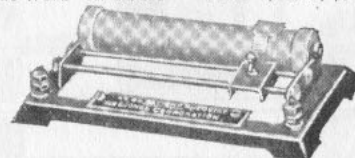
### LIONEL DIRECT CURRENT REDUCERS Not for Alternating Current

**No. 107, Lionel Current Reducer for 110-Volt Circuit**—This is constructed of four porcelain tubes wound with best quality of resistance wire. These porcelain tubes are mounted on a substantial slate base measuring 8 by 10 inches and  $\frac{3}{4}$  inch thick. The porcelain tubes are protected and ventilated by a perforated steel cover lined with heavy asbestos. The sliding lever regulates the voltage so that your trains will just crawl along or shoot ahead at express speed. The reducer is connected with the house current by a screw plug with 7 feet of flexible cord. In addition, four porcelain supports or legs with long screws are supplied so that the reducer can be screwed to wall or table.

Code Word "KENTUCKY" Price \*\$10.00, †\$12.00

**No. 170, Lionel Direct Current Reducer for 220-Volt Circuit**—This Reducer is identical in appearance with No. 107, mentioned above, but is for use on 220 volts. Equipped with separable plug and 7 feet of flexible cord.

Code Word "ASBURY" Price \*\$14.50, †\$17.00



Lionel Battery Rheostat No. 88

\*Price, East of Missouri River. †Price, West of Missouri River.

### Don't Experiment

LIONEL "Multivolt" Transformers have been on the market for a great many years and operate all makes of Electric Trains. We justly claim that they are best. Don't experiment with other makes of doubtful value. Remember, that all transformers look alike outside, but their imperfections will only be discovered after they are in actual use for a length of time. Lionel "Multivolt" Transformers will last indefinitely and are guaranteed unconditionally as long as they are used on the current for which they are intended. They are absolutely safe and will give steady, even power.

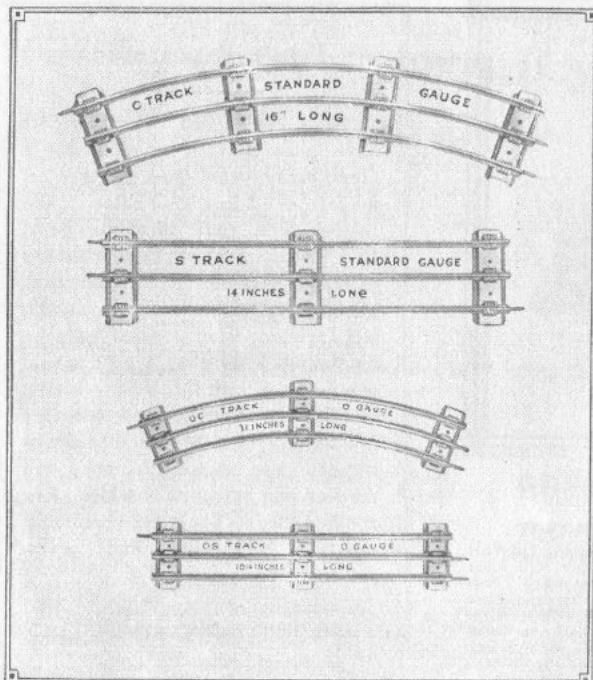
### Lionel Battery Rheostat No. 88

—Use this rheostat with dry or storage batteries. It gives a gradual increase or decrease of current. A porcelain tube is wound with resistance wire of the correct gauge. This is mounted on a steel frame. A sliding finger increases or decreases the speed of the trains. All parts are of the best quality. This rheostat cannot overheat, as the coil is entirely exposed to the air—insuring free circulation, consequently rapid cooling. The steel base is beautifully enameled and other parts are nickel plated. Size 5 inches long,  $2\frac{1}{2}$  inches wide and 1 inch high.

Code Word "BANNER"

Price \*\$1.50, †\$1.80





WE have described the strength and details of manufacture of this track in the introduction to this catalogue. We will merely add here the technical facts.

**Tested to Carry 110 Volts**—Each section of our track is tested for insulation on a circuit of 110 volts, consequently it will carry the low voltage necessary to operate our train without any chance of short-circuiting.

**Sections Are Easily Connected**—The ends of each section, whether curved or straight, have pin terminals which fit in openings in the adjoining sections. This allows the track to be laid and taken apart without any trouble. One section in each outfit is fitted with a "Lockon" track contact for batteries or transformer.

The track is made in straight and curved sections. Any shaped figure may be formed. The curvature of the track is mechanically correct, allowing the cars to run at very high speed without danger of derailing.

**Use Right or Left**—One of the greatest features of our track is that any of the curved sections may be used either right or left. This is due to the fact that the curve is not higher on the outside than on the inside. Raising the track on the outside is not necessary with our locomotives and cars because the flexible construction of the trucks prevents the cars from leaving the rails.

### "STANDARD" GAUGE TRACK—2 1/4 Inches Wide

C, curved track, 16 inches long.

Code Word "BUFF"

Price per section \*\$0.30, †\$0.40

S, straight track, 14 inches long.

Code Word "NIAGARA"

Price per section \*\$0.30, †\$0.40

Eight No. C Sections make a circle 3 1/2 feet in diameter.

### "O" GAUGE TRACK—1 3/8 Inches Wide

OC Curved Track, 11 inches long.

Code Word "LEMPs"

Price per section \*\$0.20, †\$0.26

OS Straight Track, 10 1/4 inches long.

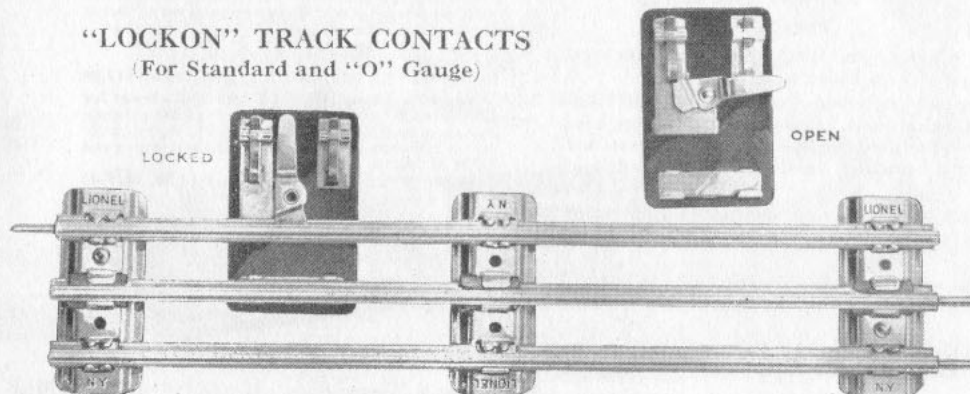
Code Word "GLENBURN"

Price per section \*\$0.20, †\$0.26

Eight No. OC Sections make a circle 30 inches in diameter.

### "LOCKON" TRACK CONTACTS

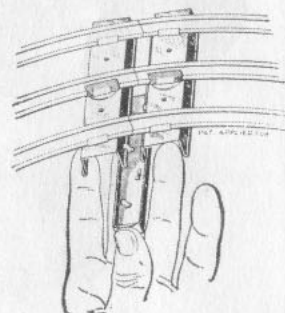
(For Standard and "O" Gauge)



Lionel leadership is again evidenced in this improved device. Considering the fact that numerous electric accessories have been added to the Lionel line, which require connection with the track, these "LOCKON" contacts will readily appeal to the user, for it is no longer necessary to purchase special sections of track to which electrical contacts are affixed.

The "Lockon" contact is attached to the track by simply turning the lever at right angles. The electric connection is as perfect as though the parts were riveted or soldered to the track.

### Connecting Tie



We show here a cut of a hand sliding in the connecting tie. This is one of our recent improvements. It binds the ties rigidly together so that sections cannot pull apart. Yet this can be removed without difficulty—just a slight pull with the thumb and finger.

Every Lionel Train Outfit includes a sufficient number of connecting ties for the amount of track packed with the outfit.

The "Lockon" contact is free from set screws and binding posts. The fingers that hold the wires in place are made of heavy tempered blue steel and are unbreakable. All parts are nickel plated and are mounted on a heavy fibre base.

No. "OTC" for "O" Gauge Track.

Code Word "JOIN"

Price \*\$0.20, †\$0.24

No. "STC" for "Standard" Gauge Track.

Code Word "JUICE"

Price \*\$0.25, †\$0.30

## LIONEL Track Accessories

LOOK at these wonderful track accessories, boys! There is no part of a railroad layout that you cannot reproduce in miniature with this sturdily-built Lionel equipment. After you receive your Lionel Train Outfit be sure to get some of these "extras"

### ACCESSORIES

For "Standard Gauge Track—2¼ Inches

See Track Layouts on Pages 46 and 47

**Switch No. 22**—(Right and Left Hand). The lever which moves the rails also sets signals and locks all mechanism. Signal lanterns have red and green discs. Length of switch, 16½ inches; width, 8 inches; height, 4½ inches. Connects with track in same manner as straight or curved sections.

Code Word "NASHVILLE"

Price per pair \*\$5.00, †\$6.00

**Electric Lighted Switch No. 21**—(Right and Left Hand). This is similar in construction to No. 22 described above, but is equipped with an electric signal, having an electric bulb which can be easily removed. The light shining through the lantern shows red and green illuminated signals.

Code Word "WINTERVILLE"

Price per pair \*\$6.75, †\$8.00

**Crossing No. 20**—For use in conjunction with Switches, enabling the formation of figure "8" and figure "8" loop. Measures 12 inches square. Cross rails are mounted on a solid base.

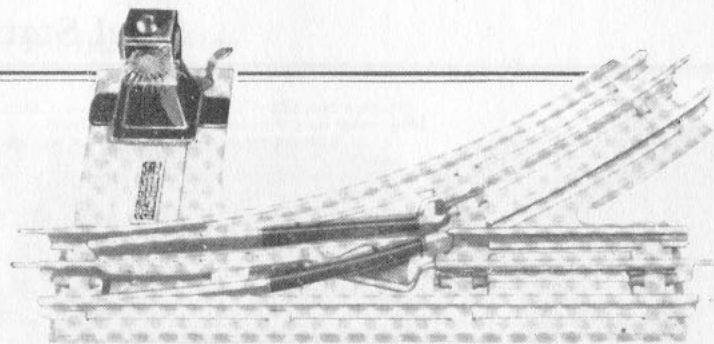
Code Word "BOSTON"

Price \*\$1.25, †\$1.50

**Bumper No. 23**—An indispensable accessory for terminals or sidings. Has two spring plungers which absorb shock when car strikes it. Length, 14 inches; height, 3 inches. The Bumper frame can be removed from the track and replaced at any point desired.

Code Word "PROVIDENCE"

Price \*\$1.25, †\$1.50

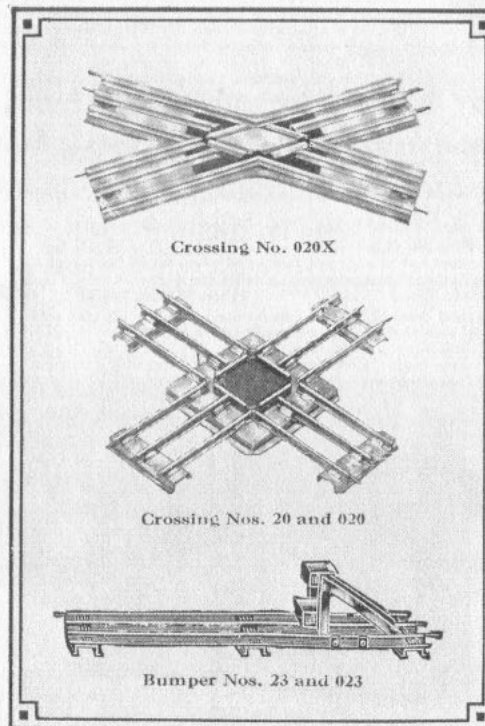


Improved Switches—Nos. 021 and 022

We are particularly desirous of drawing attention to the great improvement in the construction of our switches. Notwithstanding this improvement, prices have not been increased.

As will be seen from the illustration, the improvement consists of the insertion of two heavy fibre strips at the points where the rails cross.

By the insertion of these fibre strips all danger of short-circuit is eliminated. A train passing over these points does not slow up nor does the headlight flicker or go out.



Crossing No. 020X

Crossing Nos. 20 and 020

Bumper Nos. 23 and 023

STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED

### ACCESSORIES

For "O" Gauge Track—1¾ Inches  
See Track Layouts on Pages 46 and 47

**Switch No. 022**—(Right and Left Hand). Construction is similar to No. 22 Switch described opposite. Length, 11½ inches; width, 5½ inches; height, 3 inches.

Code Word "SPENCER"

Price per pair \*\$3.75, †\$4.50

**Electric Lighted Switch No. 021**—(Right and Left Hand). Similar in construction to No. 21 Switch described opposite. Length, 11½ inches; width, 5½ inches; height, 3 inches.

Code Word "MOSHER"

Price per pair \*\$5.00, †\$6.00

**Crossing No. 020**—Similar in construction to No. 20 Crossing described opposite. Measures 10¼ inches square.

Code Word "ORLAND"

Price \*\$1.00, †\$1.20

**Crossing No. 020X**—This is a 45-degree crossing, forms the figure "8" when using all curved track. It occupies less space than the No. 020 Crossing.

Code Word "CROSS"

Price \*\$1.50, †\$1.80

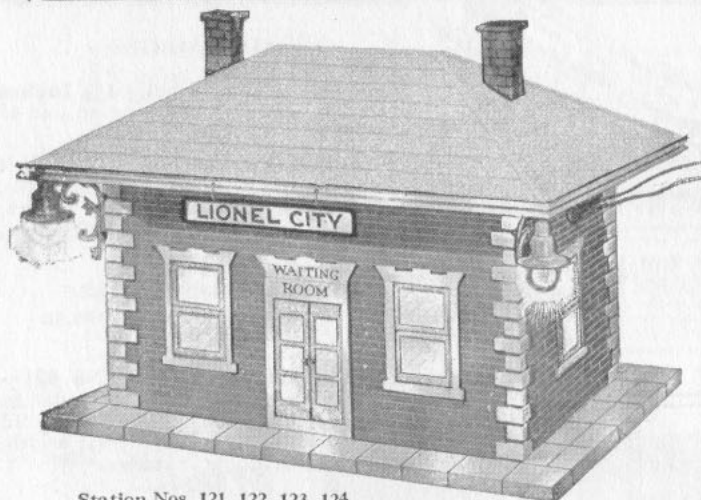
**Bumper No. 023**—Same construction as No. 23 Bumper described opposite. Length, 10¼ inches; height, 2 inches.

Code Word "DELTON"

Price \*\$0.80, †\$1.00

\*Price, East of Missouri River. †Price, West of Missouri River.

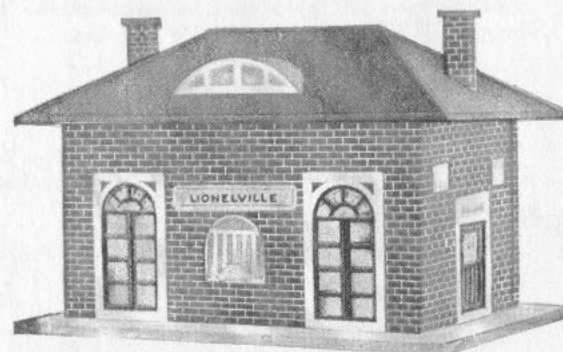




Station Nos. 121, 122, 123, 124

LIONEL all-steel houses and stations are substantially constructed and beautifully finished in a variety of durable enamels. They are so wonderfully proportioned that they have the appearance of real houses and stations in miniature. The die and embossing work, the inserted windows, the chimney stacks, roofs and entrances make them stand far above any similar toy ever introduced.

**Interior Illumination**—Some of the numbers listed on these pages have interior and outside lights complete with brackets, electric lamps and wires. This further adds to the realism and produces a wonderful effect.



Station Nos. 125, 126

**Station No. 121**—Has no lighting system. Dimensions: 13¼ inches long, 9 inches wide, 13 inches high.

Code Word "UNION" Price \*\$5.00, †\$6.50

**Station No. 122**—Has inside illumination. Furnished with complete wiring circuit ready to attach to batteries, transformer, or reducer. Wires extend through wall. Complete with one 14-volt globe and nickeled center fixture. Same size as No. 121.

Code Word "CENTRAL" Price \*\$6.75, †\$8.00

**Station No. 123**—(For 110-volt circuit.) Has inside illumination much more powerful than No. 122. This station can be lighted direct from house circuit. Is provided with nickeled center fixture, 25-watt lamp and 5 feet of cord with plug. Same size as No. 121.

Code Word "GRAND" Price \*\$8.50, †\$10.00

**Station No. 124, De Luxe Model**—This number has two platform corner lights with reflectors, all finished in bright brass, and an inside light supported on a nickeled fixture. There is an elegance, grace and architectural dignity to this station, difficult to show in an illustration. The corner lighting brackets have specially designed supporting arms—a detail seldom attempted. For use with transformers or reducers. Equipped with three 14-volt globes. Same size as No. 121.

Code Word "READING" Price \*\$9.00, †\$11.00

**Station No. 125**—(No interior illumination.) A beautifully proportioned model that retails at an exceedingly low price. The realistic detail must be seen to be appreciated. This station measures 10¼ inches long, 7¼ inches wide and 7 inches high.

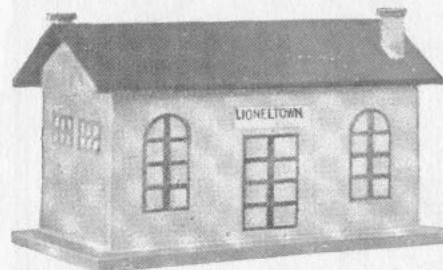
Code Word "ABOARD" Price \*\$4.25, †\$5.00

**Station No. 126**—Same as No. 125 described above, but has interior lighting fixture, lamp and wires ready for attaching to batteries, transformer or reducer.

Code Word "ALIGHT" Price \*\$5.00, †\$6.50

**Station No. 127**—This can be used as a freight station for any size train outfit and will add a completing touch to a railroad layout. It is 7 in. long, 3½ inches wide and 4½ inches high. Complete with interior lighting fixture, lamp and wires ready to attach to batteries, transformer or reducer.

Code Word "TOWNLY" Price \*\$2.10, †\$2.50

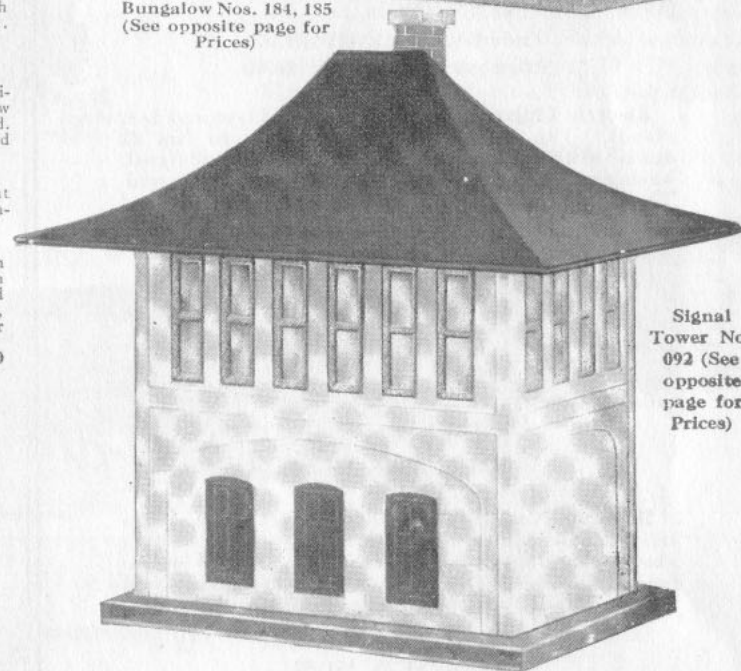


Station No. 127

\*Price, East of Missouri River. †Price, West of Missouri River.

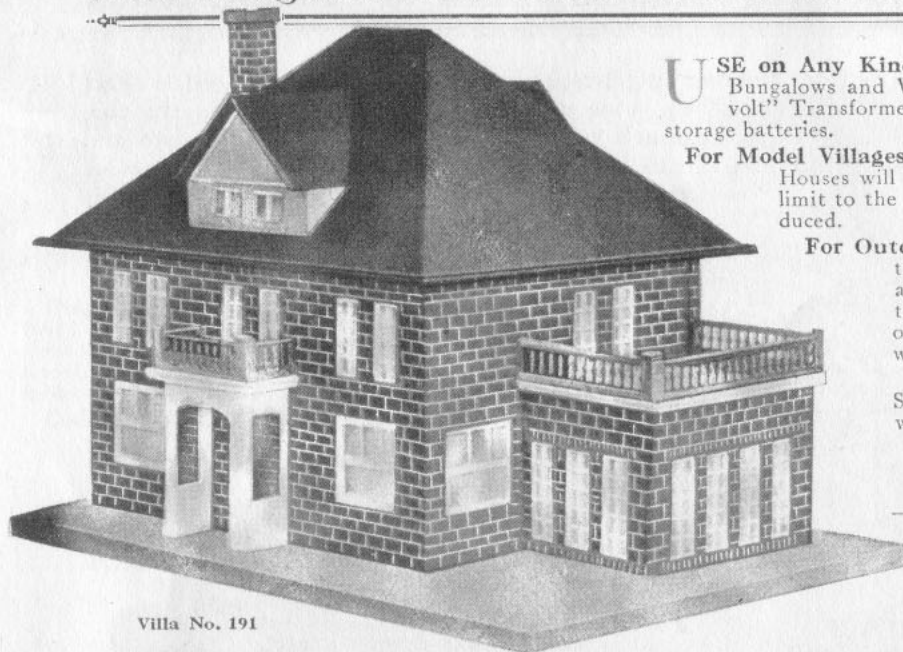


Bungalow Nos. 184, 185  
(See opposite page for Prices)

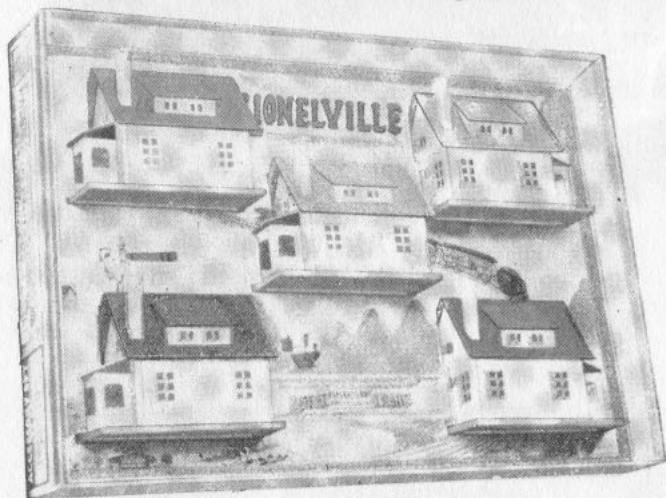


Signal  
Tower No.  
092 (See  
opposite  
page for  
Prices)

## Steel Bungalows and Villas—Sets of Houses



Villa No. 191



Set No. 186, 187

**USE on Any Kind of Current.** Lionel Stations, Bungalows and Villas can be attached to "Multi-volt" Transformers or reducers and also to dry or storage batteries.

**For Model Villages.** In this connection the Lionel Houses will be found invaluable. There is no limit to the wonderful effects that can be produced.

**For Outdoor Railroads.** Picture the fun that can be had when these houses and stations are placed around a big track layout in the garden or on any outdoor plot, and used in connection with Lionel Railroad Accessories.

**Villa No. 191** (illuminated)—Size  $7\frac{1}{8}$  in. long,  $5\frac{1}{8}$  in. wide,  $5\frac{1}{4}$  in. high.

Code Word "SOLID"

Price \*\$3.35, †\$4.00

**Villa No. 189** (illuminated)—Size  $5\frac{1}{2}$  in. long,  $4\frac{1}{8}$  in. wide,  $5\frac{3}{8}$  in. high. Code Word "MANSION"

Price \*\$2.95, †\$3.50.

**Signal Tower No. 092** (illuminated) illustrated on opposite page—Dimensions: 5 in. long, 4 in. wide,  $5\frac{1}{2}$  in. high.

Complete with interior lighting fixture, lamp and wires for connecting to batteries, transformer or reducer.

Code Word "CYRIL"

Price \*\$2.10, †\$2.50

**Bungalow No. 184** (illuminated)—Size  $4\frac{3}{4}$  in. long,  $2\frac{3}{4}$  in. wide, 4 in. high.

Code Word "HOME"

Price \*\$1.50, †\$1.80

**Bungalow No. 185**—Same as No. 184 but without interior illumination. (See illustration on opposite page)

Code Word "LEADER"

Price \*\$1.00, †\$1.20

**Bungalow Set No. 186**—Comprises 5 No. 184 illuminated bungalows, assorted colors.

Code Word "HAMLET"

Price \*\$7.50, †\$9.00

**Bungalow Set No. 187**—Same as above but without interior illumination.

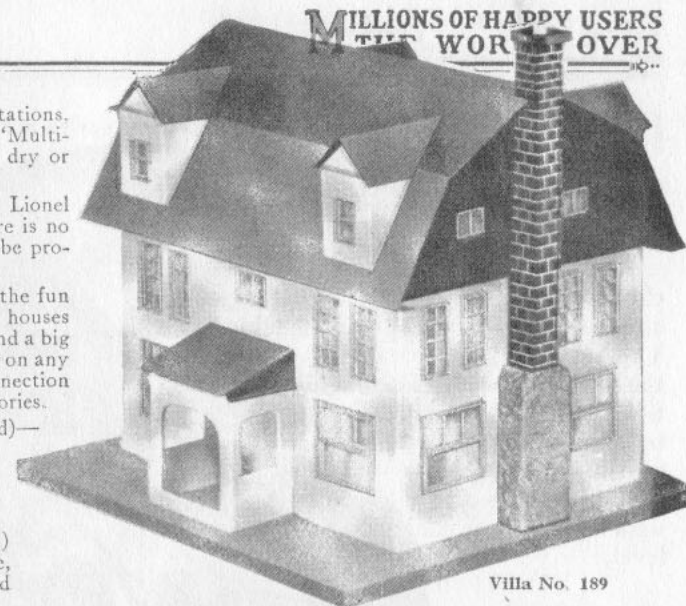
Code Word "CITY"

Price \*\$5.00, †\$6.00

**Set No. 192**—Comprises 1 No. 191 Villa, 1 No. 189 Villa and 2 No. 184 Bungalows, complete with interior lights and wires for connecting.

Code Word "VILLAGE" Price \*\$7.35, †\$8.80

\*Price, East of Missouri River. †Price, West of Missouri River.



Villa No. 189



Set No. 192

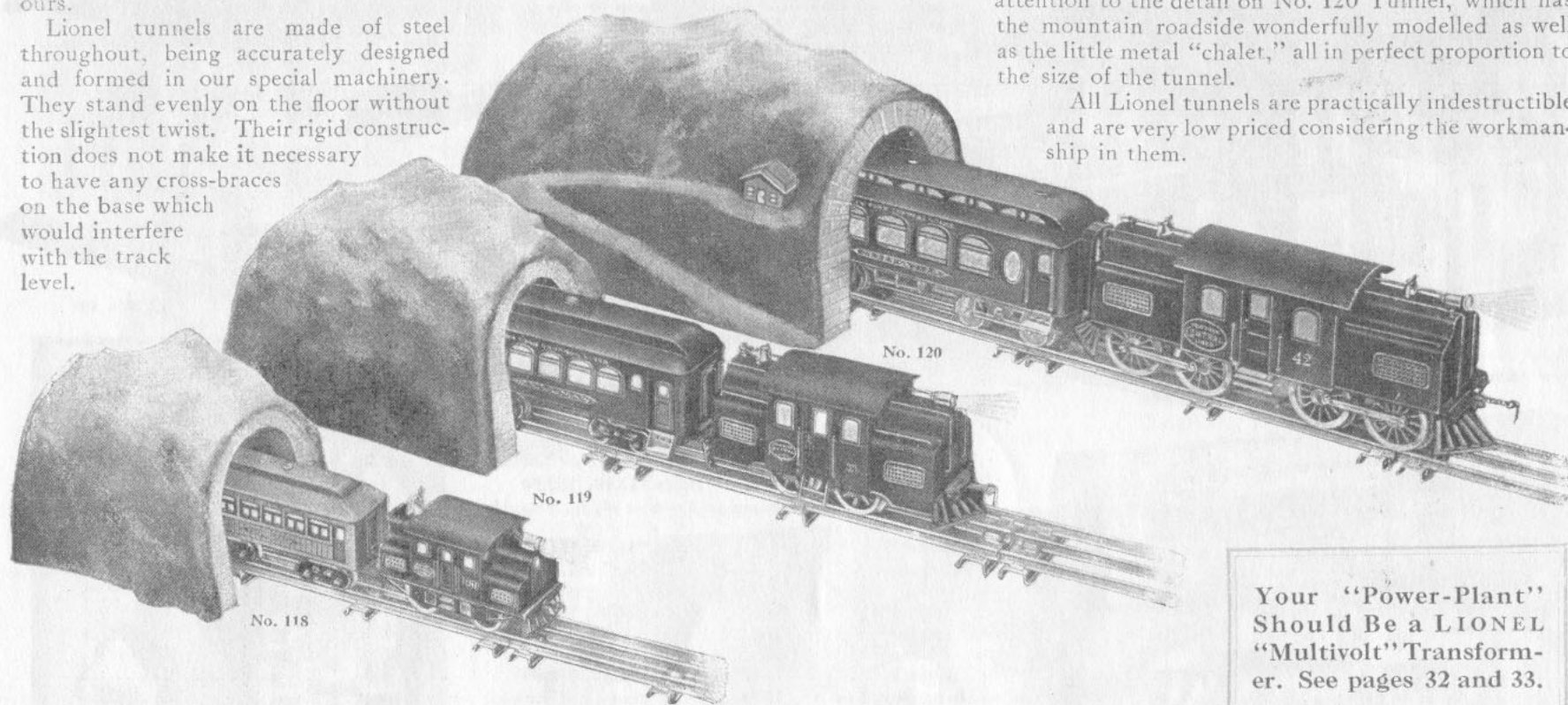


LIONEL TRAINS are worthy of good accessories and it is therefore with great pleasure that we offer the Lionel steel tunnels, which are a wonderful improvement over the old, flimsy papier-mâché ones that users of train outfits were compelled to accept before we introduced ours.

Lionel tunnels are made of steel throughout, being accurately designed and formed in our special machinery. They stand evenly on the floor without the slightest twist. Their rigid construction does not make it necessary to have any cross-braces on the base which would interfere with the track level.

The front and rear entrances of Lionel tunnels are embossed in exact reproduction of heavy stone masonry, having a keystone at the top. The bodies of the tunnels represent mountainsides in miniature and the coloring is made to harmonize beautifully. We draw particular attention to the detail on No. 120 Tunnel, which has the mountain roadside wonderfully modelled as well as the little metal "chalet," all in perfect proportion to the size of the tunnel.

All Lionel tunnels are practically indestructible and are very low priced considering the workmanship in them.



Your "Power-Plant"  
Should Be a LIONEL  
"Multivolt" Transform-  
er. See pages 32 and 33.

**Tunnel No. 118, for "O" Gauge Only**—Will allow passage of any "O" gauge train. Is 8 inches long, 7 inches wide and 7½ inches extreme height. Portals are 4 inches wide and 5½ inches high inside. Code Word "SIMPLON" Price \*\$2.10, †\$2.50

\*Price, East of Missouri River. †Price, West of Missouri River.

**Tunnel No. 119, for "O" Gauge and Some "Standard" Gauge Trains**—For use with all "O" gauge trains and "Standard" gauge trains Nos. 34, 37, 39, 40 and 41. Is 12 inches long, 9 inches wide and 10 inches extreme height. Portals are 5 inches wide and 6½ inches high inside. Code Word "HOOSAC"

Code Word "HOOSAC"

Price \*\$3.35, †\$4.00

**Tunnel No. 120, for All Lionel Trains**—This splendid model is the very best produced for beauty, grace of design and substantial construction. Is 17 inches long, 12 inches wide and 11 inches extreme height. Inside dimensions of portals are 6½ inches wide and 8 inches high. Code Word "HUDSON"

Code Word "HUDSON"

Price \*\$5.85, †\$7.00

# Steel Bridges for "Standard" and "O" Gauge Track

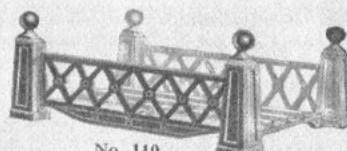
STANDARD OF THE WORLD  
SINCE NINETEEN HUNDRED

**N**O items in the Lionel line have met with such success since their introduction as the Lionel all-steel bridges. Their construction and appearance place them in a class by themselves. No illustration can do justice to the beautiful appearance and sturdy construction of these bridges. They are modeled closely after all the big railroad bridges seen throughout the country. The end piers, the bridge work and roadway are exceptionally sturdy. The architectural designs are graceful and pleasing and the embossing work incorporated in them gives a dignity and realism that cannot be equalled anywhere. Special slots in the roadway hold the track rigidly in place and the spans as well as the approaches are all provided with sections of track either for "O" gauge or "Standard" gauge. Bridges can be extended to any length by the addition of the center spans shown in the illustrations.



No. 104

No. 104, Center Span—"Standard" gauge. 14 inches long,  $6\frac{1}{2}$  inches wide,  $6\frac{1}{4}$  inches high.  
Code Word "MANHATTAN" Price \*\$3.35, †\$4.00



No. 110

No. 110, Center Span—"O" gauge.  $10\frac{1}{2}$  inches long,  $5\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "WILLIAMS" Price \*\$2.95, †\$3.50



No. 106

No. 106, One Center Span and Two Approaches—"O" gauge. Complete structure is  $31\frac{1}{2}$  inches long,  $5\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "CONN" Price \*\$3.35, †\$4.00



Nos. 100 and 105

No. 100—"Standard" gauge. In reproduction of reinforced concrete. 28 inches long,  $5\frac{1}{2}$  inches wide, 2 inches high at center.

Code Word "BROOKLYN" Price \*\$2.50, †\$3.00

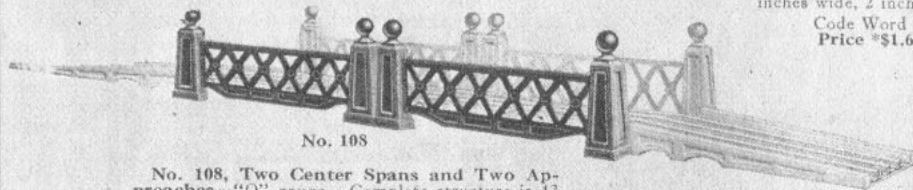
No. 105—"O" gauge. Reinforced concrete work, 21 inches long,  $4\frac{1}{4}$  inches wide, 2 inches high.

Code Word "PARIS" Price \*\$1.65, †\$2.00



No. 101

No. 101, Center Span and Two Approaches—"Standard" gauge. Complete structure is 42 inches long,  $6\frac{1}{2}$  inches wide,  $6\frac{1}{4}$  inches high.  
Code Word "QUEENS" Price \*\$5.85, †\$7.00



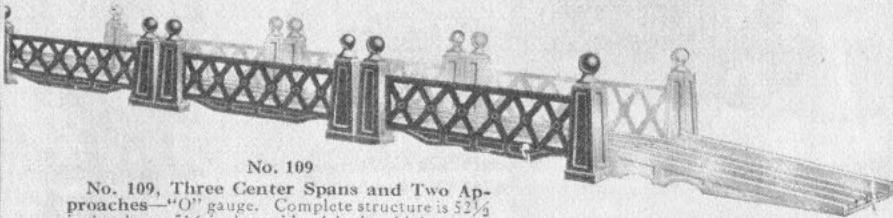
No. 108

No. 108, Two Center Spans and Two Approaches—"O" gauge. Complete structure is 42 inches long,  $5\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "HOUSA" Price \*\$5.50, †\$6.50



No. 102

No. 102, Two Center Spans and Two Approaches—"Standard" gauge. Complete structure is 56 inches long,  $6\frac{1}{2}$  inches wide,  $6\frac{1}{4}$  inches high.  
Code Word "KEEPSIE" Price \*\$8.50, †\$10.00



No. 109

No. 109, Three Center Spans and Two Approaches—"O" gauge. Complete structure is  $52\frac{1}{2}$  inches long,  $5\frac{1}{2}$  inches wide, 4 inches high.  
Code Word "MISS" Price \*\$7.50, †\$9.00



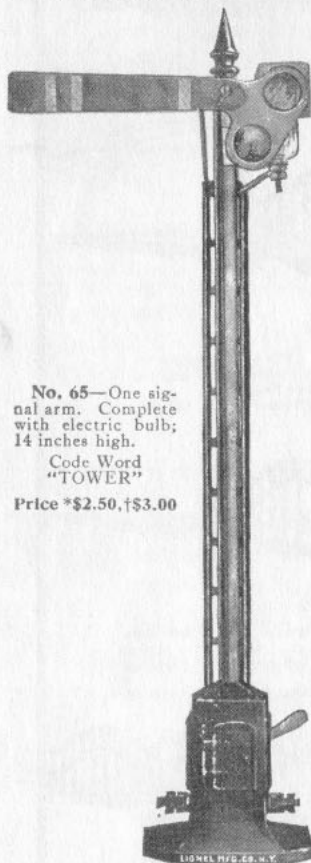
No. 103

No. 103, Three Center Spans and Two Approaches—"Standard" gauge. Complete structure is 70 inches long,  $6\frac{1}{2}$  inches wide,  $6\frac{1}{4}$  inches high.  
Code Word "LONDON" Price \*\$11.00, †\$13.00

\*Price, East of Missouri River. †Price, West of Missouri River.



**BOYS!** Read all about these wonderful "live" accessories. They are built just like the real equipment seen on the big railroads. The mechanism is perfect, they are all "sure" in their action and are built of steel all through.



**No. 65**—One signal arm. Complete with electric bulb; 14 inches high.

Code Word "TOWER"

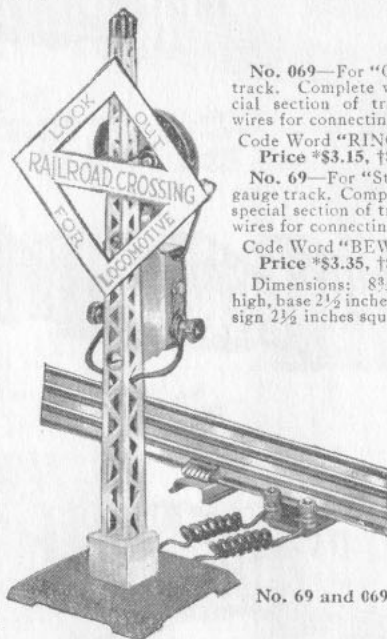
Price \*\$2.50, †\$3.00

**No. 65 Semaphore**

**No. 076 for "O" Gauge Track**—Complete with wires and two special sections of track. Code Word "FORWARD" Price \*\$3.15, †\$3.70

**No. 76 for "Standard" Gauge Track**—Complete with wires and two special sections of track.

Dimensions: 8¾ inches high, base 2¾ inches square. Code Word "ONWARD" Price \*\$3.35, †\$4.00



**No. 069**—For "O" gauge track. Complete with special section of track and wires for connecting.

Code Word "RINGER" Price \*\$3.15, †\$3.70

**No. 69**—For "Standard" gauge track. Complete with special section of track and wires for connecting.

Code Word "BEWARE" Price \*\$3.35, †\$4.00

Dimensions: 8¾ inches high, base 2½ inches square, sign 2½ inches square.

**No. 69 and 069 Warning Signals**



**No. 76 and 076 Block Signals**

**No. 65 and 66 Semaphores**—The base is made of heavy sheet steel. The post, semaphore arms and ladder are also constructed of steel. The transparent colored discs which are securely fastened to the semaphore arms show "Danger", "Clear" or "Caution" signals. The electric lamps are enclosed in beautifully enameled steel lanterns which are removable so that lamps can be easily renewed. A metal finger holds these lantern caps in place. The levers which operate the signal arms are fastened to the base and are connected to rods running up beneath the ladder. The wiring and insulation are inside the post and short circuits are impossible. The electric lamps shining through the colored discs present a wonderfully realistic effect.

**No. 77 and 077 Crossing Gates**—These can be used singly or in pairs, with the special sections of track supplied with them and which are attached to the rest of the layout in the usual manner. When the train approaches and passes over the special section, the gates close and they open as soon as the train has gone by.

Lionel Crossing Gates are exact reproductions of the real ones. Be sure to add them to your train layout if you want the finishing touch.

**No. 76 and 076 Block Signals**—This new Lionel accessory will add life and realism to any train outfit. It consists of a steel standard to which are attached two electric illuminated lanterns showing red and green signals.

When the train passes over the special sections of track supplied with the signal, the green lantern lights up, indicating "Track clear", and after it leaves the first section of special track the red light shows, indicating "Stop" to the train following. This red light goes out as soon as the train leaves the second special section of track, the same as the block signals operating on real railroads.

**No. 77 Crossing Gate for "Standard" Gauge Track**—Complete with one special section of track and wires for connecting.

Code Word "TARRY" Price \*\$4.25, †\$5.00

**No. 077 Crossing Gate for "O" Gauge Track**—Complete with one special section of track and wires for connecting.

\*Price \$4.00, †\$4.80

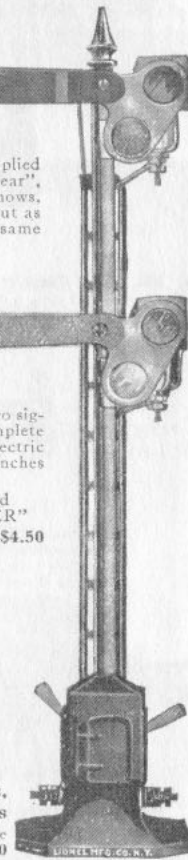
Code Word "ADVANCE" Dimensions: 11 inches long, base is 4¾ inches long, 2½ inches wide.

**No. 77 and 077 Crossing Gates**

**Special Track for Warning Signals, Crossing Gates and Block Signals**

—OSS ("O" gauge), per section, Code Word "RELAY" Price \*\$0.40, †\$0.50

—SS ("Standard" Gauge), per section, Code Word "BURT" Price \*\$0.60, †\$0.70.



**No. 66**—Two signal arms. Complete with two electric bulbs; 14 inches high.

Code Word "LEMPSTER" Price \*\$3.75, †\$4.50

**No. 66 Semaphore**

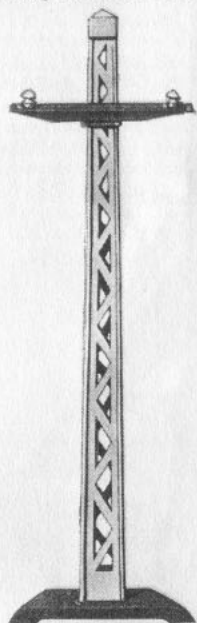
\*Price, East of Missouri River. †Price, West of Missouri River.

## Accessories—Accessory Sets

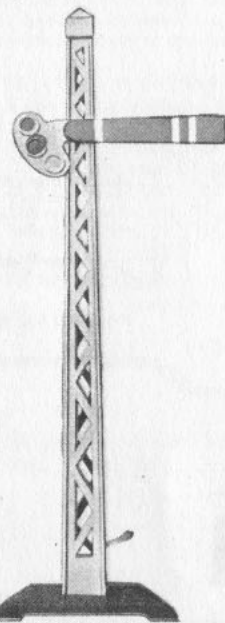
MILLIONS OF HAPPY USERS  
THE WORLD OVER

LIONEL accessory sets are unquestionably the best constructed as well as the most popular on the market. This is not to be wondered at considering the fact that they are so durable and attractive in design. A miniature railroad layout is considerably enhanced by the addition of a set of telegraph posts placed at regular intervals around the track. Copper wire can be strung from the insulators, producing an effect of great realism.

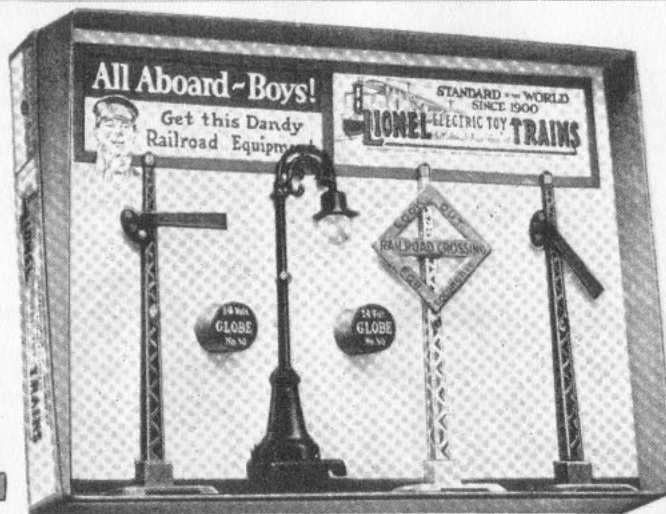
If the semaphores, lamp post and warning signal which form No. 70 set are added to your train layout the finishing touches are provided. All Lionel accessories are constructed of steel throughout and are beautifully finished.



**No. 60 Telegraph Post**  
—A companion to No. 62 Semaphore and No. 68 Warning Signal. The arm is equipped with real glass insulators. Height 8¾ inches, base 2½ inches square.  
Code Word "WIRE"  
Price \*\$0.65, †\$0.80



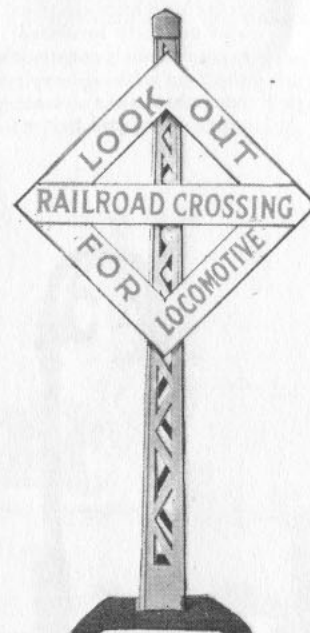
**No. 62 Semaphore**  
—The semaphore arm has three discs—red, green and yellow—and the arm is operated by a lever near the base. Steel construction throughout. Height 8¾ ins., base 2½ inches square.  
Code Word "CAUTION"  
Price \*\$0.80, †\$1.00



**Outfit No. 70**—Comprises two No. 62 Semaphores, one No. 59 Lamp Post, one No. 68 Warning Signal and two globes for the lamp post. Attractively packed.  
Code Word "HOBART"  
Price \*\$4.25, †\$5.00



**Outfit No. 71**—Comprises six No. 60 Steel Telegraph Posts as described on this page. Packed in a very attractive box.  
Code Word "USEFUL"  
Price \*\$3.75, †\$4.50



**No. 68 Warning Signal**  
—This conforms in size with No. 62 Semaphore and No. 60 Telegraph Post, and the construction and size are similar to No. 69 and No. 069 described on the opposite page. These should be placed at every railroad crossing.  
Code Word "STOP"  
Price \*\$0.90, †\$1.10



**No. 89 Flag Staff**—This is substantially constructed of steel and is 14 inches high. The base is 2½ inches square. It is beautifully finished in white enamel and the spire is finished in a rich black. The silk flag supplied with it can be raised or lowered by means of a cord to which it is attached and which is fastened on a hook near the base.  
Boys! Place it in front of a station or in the centre of a grass plot that may be laid out in connection with a model village or railroad. Let it wave proudly.  
Code Word "ARTHUR"  
Price \*\$0.75, †\$0.90

\*Price, East of Missouri River.

†Price, West of Missouri River.



**N**O miniature railroad is complete without the addition of Lionel lamp posts, which are faithful reproductions of boulevard and street lamp posts seen everywhere. All Lionel lamp posts are substantially constructed of steel throughout—they won't bend or break. The binding posts to which electrical connections are made are conveniently situated and are securely fastened and perfectly insulated. There is no chance of short circuit with Lionel lamp posts, for great care is used in their construction and every one is thoroughly tested before leaving the factory. The globes supplied with all lamp posts are in exact proportion to the size of the posts. It is impossible to secure any other make of lamp post that has the dignity and grace of design to be found in the Lionel lamp posts illustrated below.

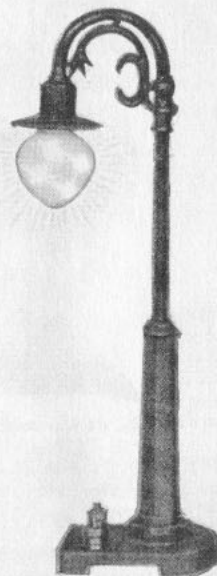


Lamp Post No. 61  
—13 inches high.  
Complete with electric globe.

Code Word  
"INDIANA"

Price \*\$2.10, †\$2.50

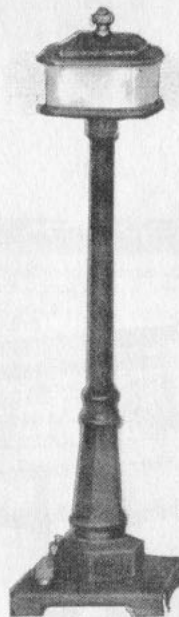
No. 61



No. 58

Lamp Post No. 58—Another new addition. This lamp post is graceful in design and is 7 $\frac{3}{4}$  inches high. Complete with globe.

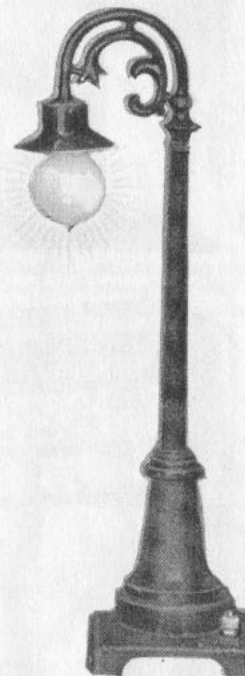
Code Word "JENNY"  
Price \*\$1.25, †\$1.50



No. 57

Lamp Post No. 57—This is a new addition to the Lionel family and is a wonderful reproduction of the street lamp posts seen in many cities. It is 7 $\frac{1}{2}$  inches high. The top is easily removable so that the lamp can be renewed when necessary. Complete with lamp.

Code Word "CHEERY"  
Price \*\$1.65, †\$2.00



No. 59

Lamp Post No. 59—Similar in design to No. 61, but is 8 $\frac{3}{4}$  inches high. Complete with globe.

Code Word "BRIGHT"  
Price \*\$1.50, †\$1.80



Lamp Post No. 67  
—13 inches high.  
Complete with two electric globes

Code Word  
"EDMUNDS"

Price \*\$2.95, †\$3.50

No. 67

\*Price, East of Missouri River. †Price, West of Missouri River.

## Interior Lighting Outfits—Lamp Renewals

**STANDARD OF THE WORLD**  
SINCE NINETEEN HUNDRED

### Pullman Illuminating Outfits for "Standard" Gauge Trains

THESE outfits consist of flexible cords, equipped with lamp sockets and bulbs, so arranged that they fit to the terminals with which all locomotives operating on "Standard" gauge track are equipped. The connections are permanent and lamps can be arranged in any manner desired by the user. A set of two or three lamps can be strung through one or more cars. The effect of the Pullman cars illuminated by these lamps is very realistic and materially adds to the appearance of the train. Lamps screw into sockets the same as large ones and can be renewed at will. A steel clip is fastened to each lamp socket. The clip clamps onto the crossbar in the center of the roof of each car. Both ends of the cord have brass terminals; one of which connects to binding

post on locomotive and the other fastens to connection in rear car.

We make outfits to be used on direct or alternating current when properly reduced with "Multivolt" transformers; also for dry and storage batteries. Be sure to specify the current you use when ordering.

**Outfit No. 27**—A three-car lighting set. Consists of three 8-volt bulbs with 5 feet of flexible cord and sockets. To be used on **batteries or reduced direct current**. Complete with directions for connecting.

Code Word "ANDERSON"

Price \*\$2.95, †\$3.50

**Outfit No. 217**—A three-car lighting set. Same as above, but equipped with three 14-volt bulbs to be used on **reduced alternating current**. Complete with directions for connecting.

Code Word "STEPNEY"

Price \*\$2.95, †\$3.50

**Outfit No. 270**—A two-car lighting set. Consists of two 8-volt bulbs with 3 feet of flexible cord and sockets. To be used on **batteries or reduced direct current**. Complete with directions for connecting.

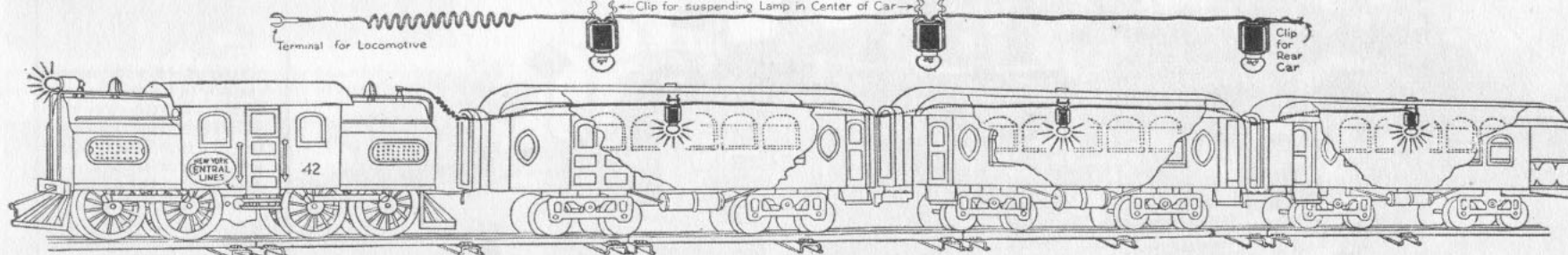
Code Word "PARSLEY"

Price \*\$2.10, †\$2.50

**Outfit No. 271**—A two-car lighting set. Same as above, but equipped with two 14-volt bulbs to be used on **reduced alternating current**. Complete with directions for connecting.

Code Word "BALLARD"

Price \*\$2.10, †\$2.50



Sectional view of train equipped with electric lights. Flexible cord, lamps and clips are shown separately.

### Lamp Assortment No. 111

We supply Lionel dealers with a handsome cabinet of renewal lamps for use in headlights and all electrically illuminated accessories. These lamps are of the finest quality and are supplied in 8, 14 and 21 volts, either 1/2 inch round or 1 inch round, as described opposite. Fifty assorted lamps are packed in each cabinet. The chart on the inside cover gives valuable information as to the uses of the various lamps. Each lamp is packed in a wooden container.

No. 111 Lamp Assortment.

Code Word "LUX."

Price \*\$15.00, †\$20.00

\*Price, East of Missouri River.

†Price, West of Missouri River.



No. 111 Lamp Assortment

### Lamp Renewals

Lamp No. 24, 1/2 inch round, 8 volts.

Code Word "CAMBRIDGE"

Price \*\$0.30, †\$0.40

Lamp No. 26, 1/2 inch round, 14 volts.

Code Word "OXFORD"

Price \*\$0.30, †\$0.40

Lamp No. 48, 1/2 inch round, 21 volts.

Code Word "MILTON"

Price \*\$0.30, †\$0.40

Globe No. 46, 1 inch round, 8 volts.

Code Word "ETON"

Price \*\$0.30, †\$0.40

Globe No. 30, 1 inch round, 14 volts.

Code Word "KINGS"

Price \*\$0.30, †\$0.40

Globe No. 49, 1 inch round, 21 volts.

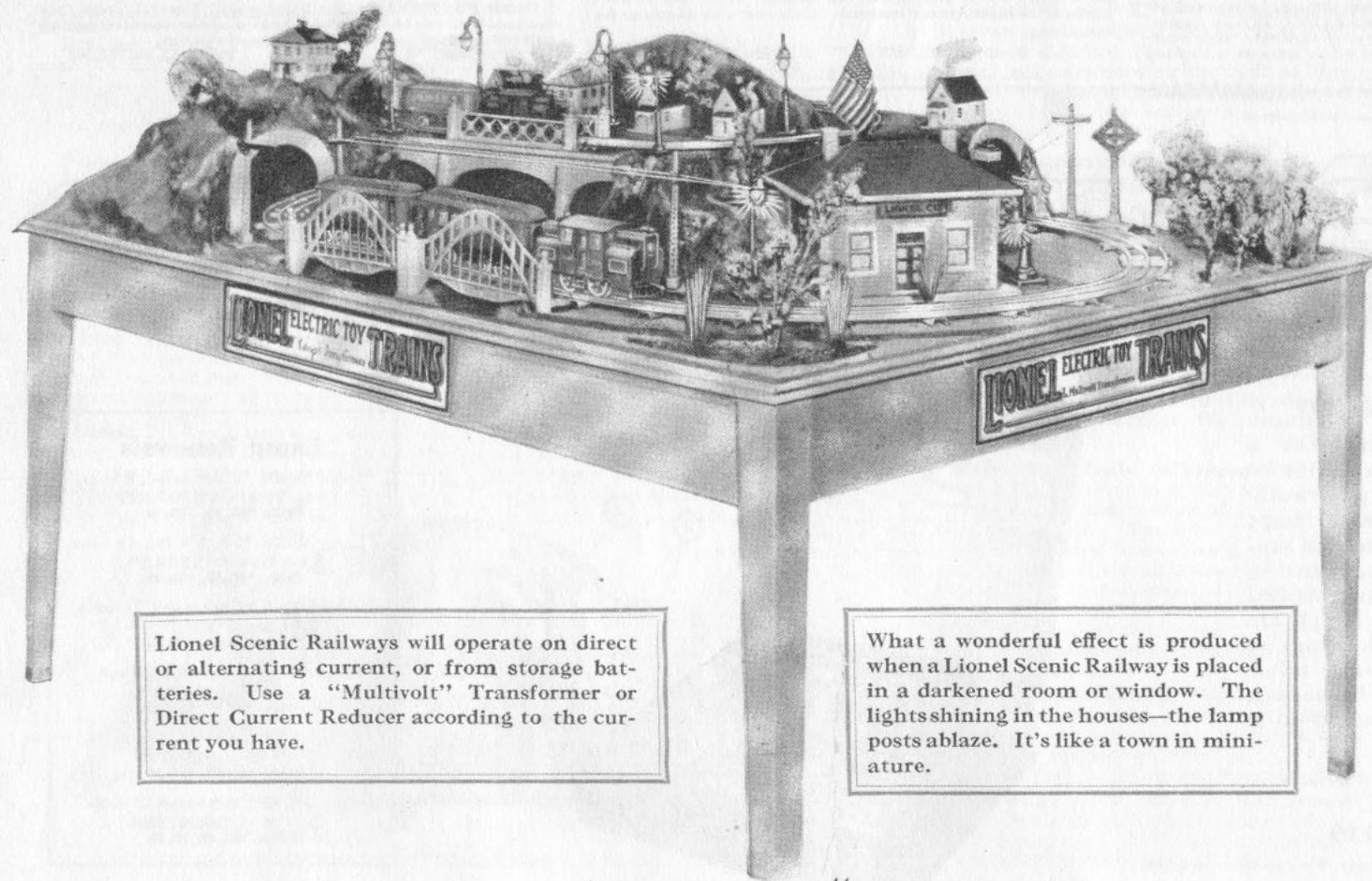
Code Word "HUNTERS"

Price \*\$0.30, †\$0.40



**W**HAT a fascinating outfit to put in a boy's play-room! Hours and hours of good honest fun will be had by the lucky owner of one of these wonderful Lionel Scenic Railways. They are practically indestructible and are easily attached to the house current either with a "Multivolt" Transformer or Direct Current Re-

ducer. The liberal amount of equipment provided with these Scenic Railways as well as the detail embodied in their construction makes them worth far more than the prices at which they sell. Read all about the various sizes we make and place your order for them early as we only make a limited quantity each year.



Lionel Scenic Railways will operate on direct or alternating current, or from storage batteries. Use a "Multivolt" Transformer or Direct Current Reducer according to the current you have.

What a wonderful effect is produced when a Lionel Scenic Railway is placed in a darkened room or window. The lights shining in the houses—the lamp posts ablaze. It's like a town in miniature.

## TO DEALERS

**T**HE Lionel Corporation originated and developed these wonderfully attractive Scenic Railway Displays last year and are now introducing greatly improved models.

These Scenic Railways not only increase the sale of Lionel Trains but draw attention to all other toys carried by the dealer. The tables are made with removable legs and the entire scenic effect is constructed of indestructible sheet steel. No detail is omitted to make them as complete and realistic as possible. The mountains, trees, bridges and other details combine to make an exceptionally beautiful display. Water can be placed in the metal-lined tank which forms the brook and in which gold fish can be placed. The station, lamp posts and houses are illuminated and the table is wired ready for use on the house current, either with a "Multivolt" Transformer for alternating current or a direct current reducer for direct current. Dry cells or storage batteries can be used where no house current is available.

## PRICES AND SPECIFICATIONS

**No. 177 Scenic Railway**—(Illustrated on opposite page). Size of table, 6 feet 6 inches long by 4 feet 9 inches wide. Table has removable legs. Two track layouts are incorporated in this display; one "O" Gauge and one "Standard" Gauge, together with the following equipment:

1 No. 34 Train	2 No. 104 Spans	1 No. 57 Lamp Post
1 No. 155 Train	1 No. 110 Span	1 No. 62 Semaphore
1 No. 191 Villa	1 No. 124 Station	1 No. 69 Warning Signal
1 No. 189 Villa	2 No. 59 Lamp Posts	3 No. 60 Telegraph Posts
5 No. 184 Bungalows	5 No. 58 Lamp Posts	1 No. 89 Flagstaff

The station, houses and accessories are all illuminated and wired as well as the track for train outfits, ready to attach to transformer or reducer.

We guarantee these Scenic Railway Displays to reach any part of the country in perfect condition, due to the extra care we use in packing.

Code Word "ATTRACT"

Price \*\$200.00, †\$250.00

**No. 178 Scenic Railway**—This is similar in appearance to the No. 177 and is constructed in just the same manner, but has one "O" Gauge Track layout. The table measures 5 feet long by 3 feet wide. The following equipment is supplied with it:

1 No. 57 Lamp Post	1 No. 155 Train	5 No. 184 Bungalows
1 No. 62 Semaphore	2 No. 110 Spans	1 No. 89 Flagstaff
1 No. 118 Tunnel	1 No. 124 Station	1 No. 069 Warning Signal
4 No. 58 Lamp Posts		5 No. 60 Telegraph Posts

The station, houses and accessories are all illuminated and wired as well as the track for train outfit, ready to attach to transformer or reducer.

Code Word "ALBERT"

Price \*\$150.00, †\$180.00

**No. 180 Scenic Railway (Platform Only)**—Size of platform 3 feet by 3 feet. The following equipment is supplied with it:

1 No. 160 Train	2 No. 58 Lamp Posts	1 No. 62 Semaphore
1 No. 127 Station	3 No. 184 Bungalows	1 No. 89 Flagstaff
	2 No. 60 Telegraph Posts	

The station, houses and accessories are all illuminated and wired as well as the track for train outfit, ready to attach to transformer or reducer.

Code Word "PEARL"

Price \*\$50.00, †\$60.00

## The New Small Size Lionel Scenic Railway

(Illustrated below)

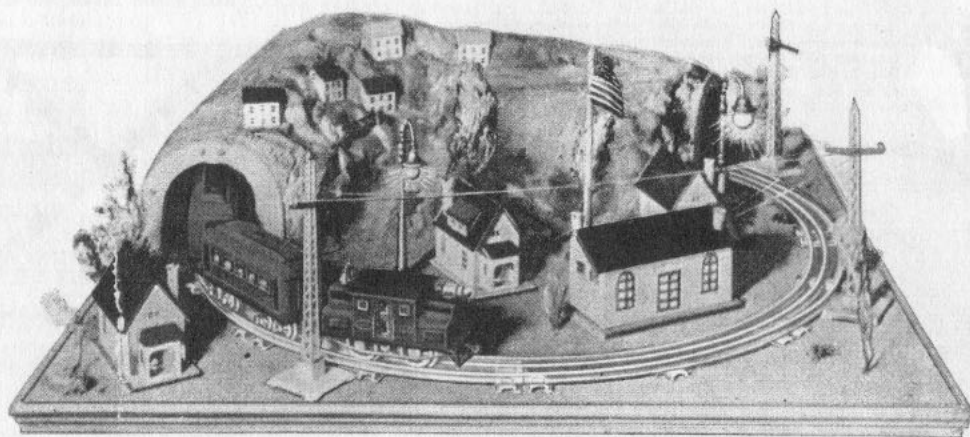
Many Lionel enthusiasts who saw our Scenic Railways in windows and stores last year purchased them after they had served the dealer's purpose as display pieces.

Many others who wanted them but who could not pay the price have asked us to bring out a smaller one at less cost.

We now present Lionel Scenic Railway No. 180—built just as beautifully and substantially as our larger sizes.

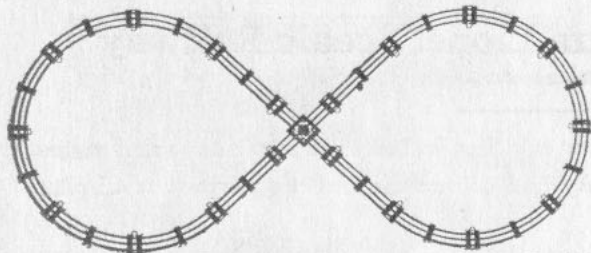
The mountain scenery, illuminated houses, tunnel, shrubbery and all the equipment, are on the same scale of excellence as those incorporated in our larger numbers. Being smaller, they are sold at a very reasonable price.

No finer toy will ever be produced.



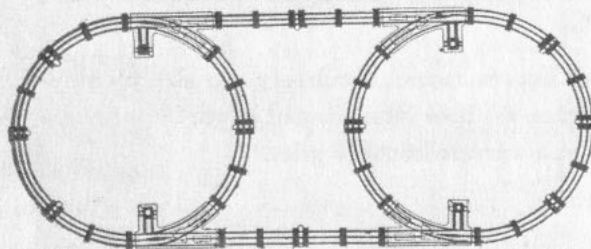
\*Price, East of Missouri River.

†Price, West of Missouri River.



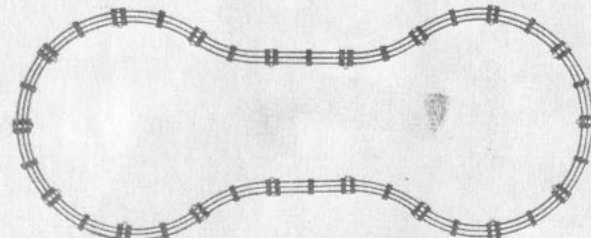
**Track Layout OA—"O" Gauge Track Used**—One No. 020 Crossing, four sections OS straight track, twelve sections OC curved track. Outside dimensions, 72 inches long and 30 inches wide.

**Track Layout SA—"Standard" Gauge Track Used**—One No. 20 Crossing, four sections S straight track, twelve sections C curved track. Outside dimensions 100 inches long and 42 inches wide.



**Track Layout OB—"O" Gauge Track Used**—Two No. 021 or No. 022 Left Hand Switches, two No. 021 or No. 022 Right Hand Switches, four sections OS straight track, twelve sections OC curved track. Outside dimensions, 72 inches long, 30 inches wide.

**Track Layout SB—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Left Hand Switches, two No. 21 or No. 22 Right Hand Switches, four sections S straight track, twelve sections C curved track. Outside dimensions, 100 inches long and 42 inches wide.



**Track Layout OD—"O" Gauge Track Used**—Sixteen sections OC curved track, two sections OS straight track. Outside dimensions, 74 inches long and 30 inches wide.

**Track Layout SD—"Standard" Gauge Track Used**—Sixteen sections C curved track, two sections S straight track. Outside dimensions, 117 inches long and 42 inches wide.

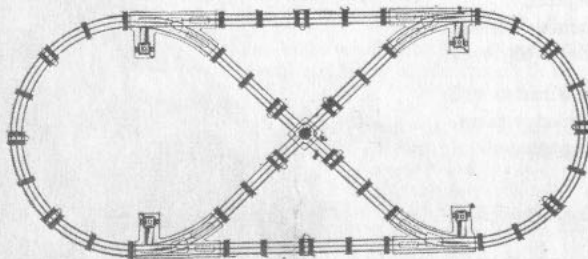
**H**ERE'S loads of fun for everybody—making various track figures with Lionel "O" gauge or Standard gauge track. The very foundation of your railroad must be strong. Therefore, use Lionel Track.

Look at the number of figures you can construct—and hundreds more by using straight and curved sections, switches, crossings and bumpers.

Isn't it great to watch your train go over the crossing—then you turn the switch and send it over to the siding—back again at full speed down the straightaway.

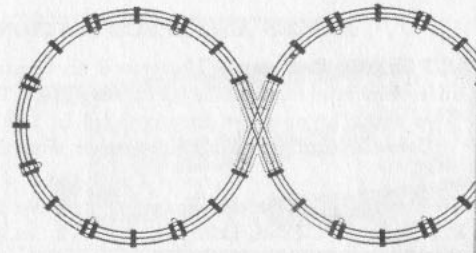
Your train will always operate better if you make the curves large in diameter. Always break up the circles as much as possible by inserting straight sections.

See pages 34 and 35 for Prices of Track, Switches and other Accessories.

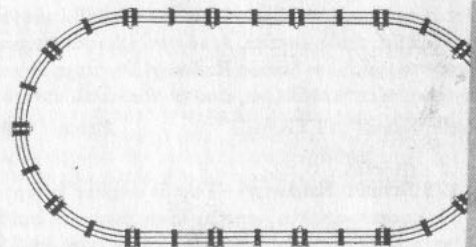


**Track Layout OE—"O" Gauge Track Used**—Two No. 021 or No. 022 Left Hand Switches, two No. 021 or No. 022 Right Hand Switches, one No. 020 Crossing, eight sections OC curved track, eight sections OS straight track. Outside dimensions, 72 inches long and 30 inches wide.

**Track Layout SE—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Left Hand Switches, two No. 21 or No. 22 Right Hand Switches, one No. 20 Crossing, eight sections C curved track, eight sections S straight track. Outside dimensions, 100 inches long and 42 inches wide.

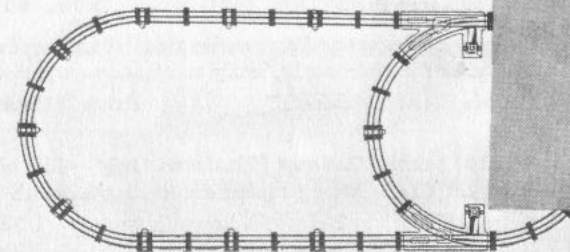


**Track Layout OF—"O" Gauge Track Used**—One No. 020 Crossing, fourteen sections OC curved track. Outside dimensions, 60 inches long and 30 inches wide.



**Track Layout OG—"O" Gauge Track Used**—Eight sections OC curved track, six sections OS straight track. Outside dimensions, 60 inches long and 30 inches wide.

**Track Layout SG—"Standard" Gauge Track Used**—Eight sections C curved track, six sections S straight track. Outside dimensions, 87 inches long and 42 inches wide.



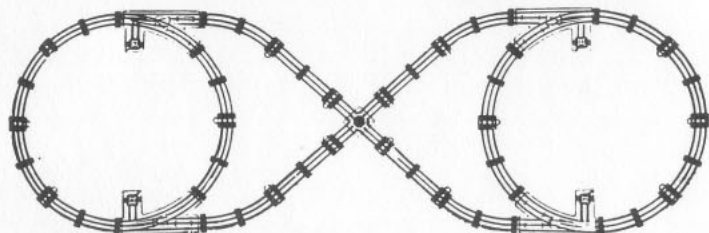
**Track Layout OH—"O" Gauge Track Used**—One No. 021 or No. 022 Left Hand Switch, one No. 021 or No. 022 Right Hand Switch, ten sections OC curved track, six sections OS straight track. Outside dimensions, 72 inches long and 30 inches wide.

**Track Layout SH—"Standard" Gauge Track Used**—One No. 21 or No. 22 Left Hand Switch, one No. 21 or No. 22 Right Hand Switch, ten sections C curved track, six sections S straight track. Outside dimensions, 100 inches long and 42 inches wide.



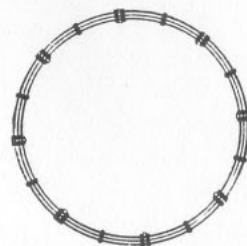
# "O" Gauge and "Standard" Gauge Track

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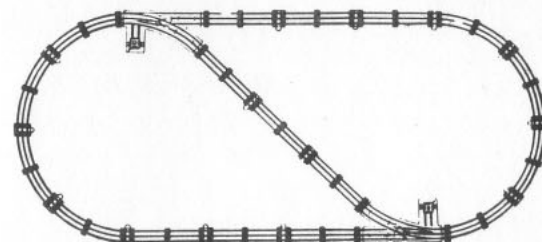
**Track Layout OJ—"O" Gauge Track Used**—Two No. 021 or No. 022 Right Hand Switches, two No. 021 or No. 022 Left Hand Switches, one No. 020 Crossing, sixteen sections OC curved track, four sections OS straight track. Outside dimensions, 92 inches long and 30 inches wide.

**Track Layout SJ—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Right Hand Switches, two No. 21 or No. 22 Left Hand Switches, one No. 20 Crossing, sixteen sections C curved track, four sections S straight track. Outside dimensions, 132 inches long and 42 inches wide.



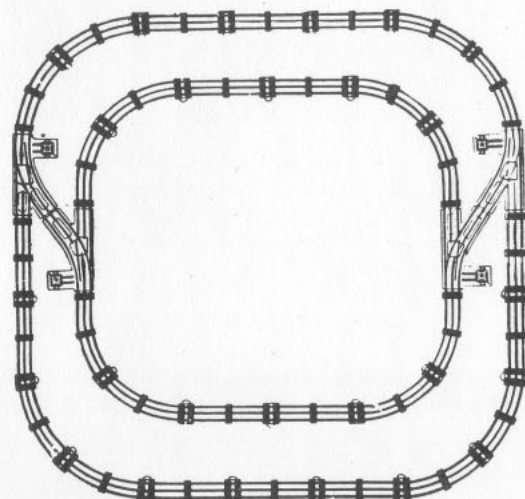
**Track Layout OM—"O" Gauge Track Used**—Eight sections OC curved track. Outside dimensions, 30 inches in diameter.

**Track Layout SM—"Standard" Gauge Track Used**—Eight sections C curved track. Outside dimensions, 42 inches in diameter.



**Track Layout ON—"O" Gauge Track Used**—Two No. 021 or No. 022 Right Hand Switches, 8 sections OC curved track, nine sections OS straight track. Outside dimensions, 66 inches long and 30 inches wide.

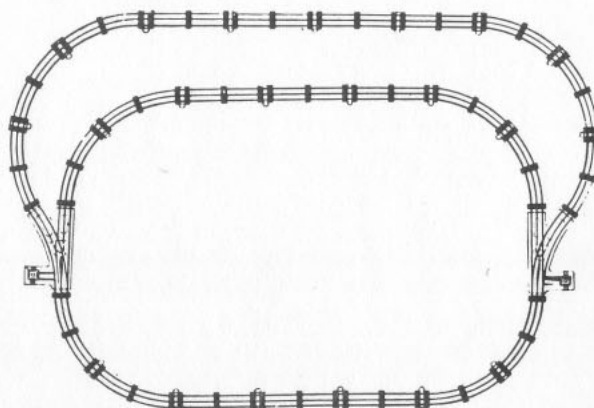
**Track Layout SN—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Right Hand Switches, 8 sections C curved track, nine sections S straight track. Outside dimensions, 100 inches long and 42 inches wide.



**Track Layout OK—"O" Gauge Track Used**—Two No. 021 or No. 022 Right Hand Switches, two No. 021 or No. 022 Left Hand Switches, sixteen sections OC curved track, fourteen sections OS straight track. Outside dimensions, 64 inches long and 64 inches wide.

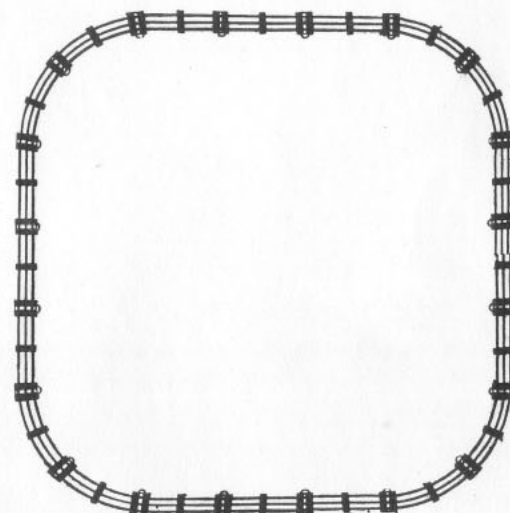
**Track Layout SK—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Right Hand Switches, two No. 21 or No. 22 Left Hand Switches, sixteen sections C curved track, fourteen sections S straight track. Outside dimensions, 85 inches long and 45 inches wide.

See pages 34 and 35 for Prices of Track, Switches and other Accessories.



**Track Layout OO—"O" Gauge Track Used**—One No. 021 or No. 022 Right Hand Switch, one No. 021 or No. 022 Left Hand Switch, fourteen sections OC curved track, ten sections OS straight track. Outside dimensions, 75 inches long and 50 inches wide.

**Track Layout SO—"Standard" Gauge Track Used**—One No. 21 or No. 22 Right Hand Switch, one No. 21 or No. 22 Left Hand Switch, fourteen sections C curved track, ten sections S straight track. Outside dimensions, 100 inches long and 75 inches wide.

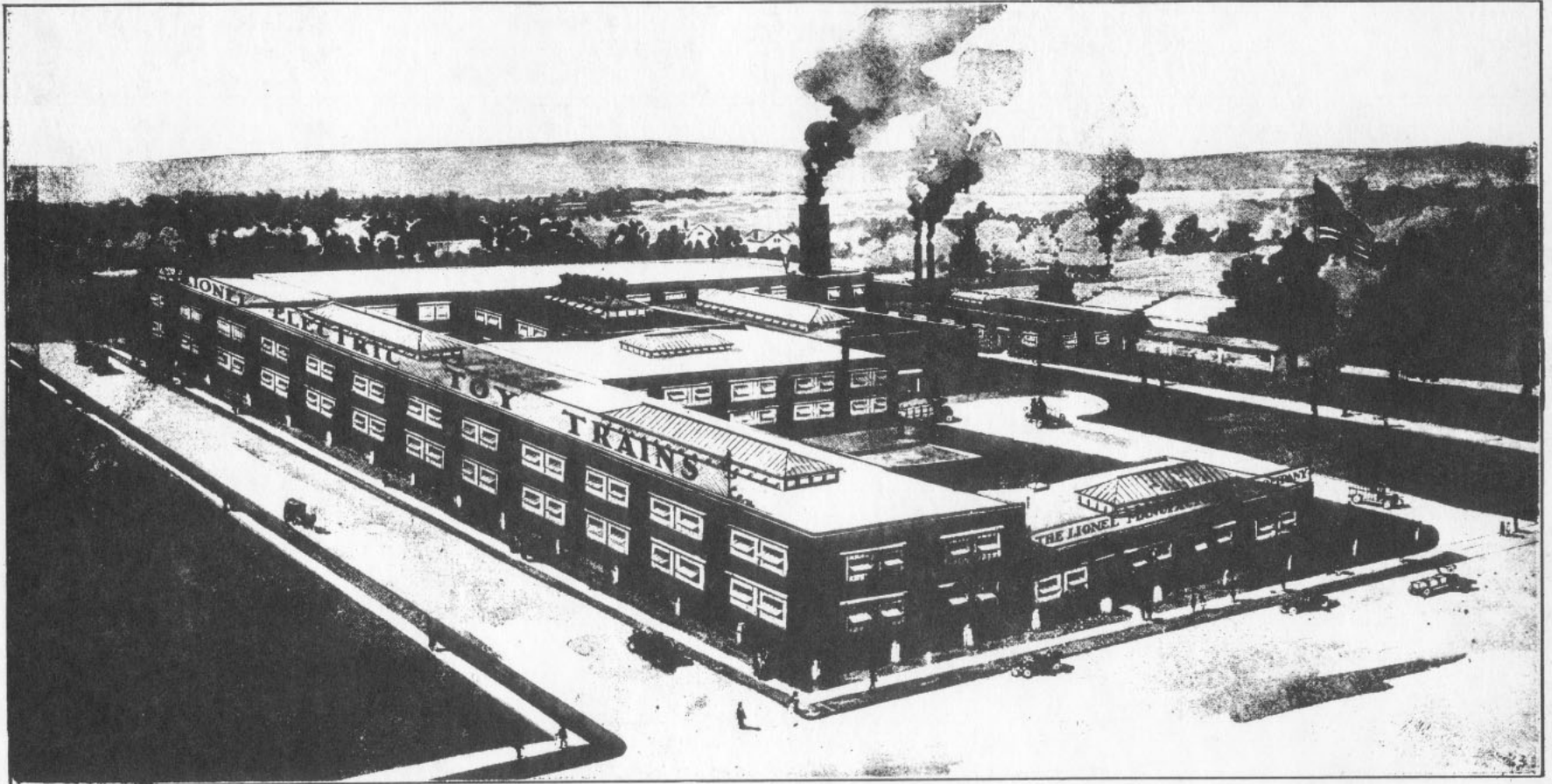


**Track Layout OL—"O" Gauge Track Used**—Two No. 021 or No. 022 Right Hand Switches, two No. 021 or No. 022 Left Hand Switches, sixteen sections OC curved track, fourteen sections OS straight track. Outside dimensions, 64 inches long and 64 inches wide.

**Track Layout SL—"Standard" Gauge Track Used**—Two No. 21 or No. 22 Right Hand Switches, two No. 21 or No. 22 Left Hand Switches, sixteen sections C curved track, fourteen sections S straight track. Outside dimensions, 85 inches long and 45 inches wide.

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